	AWARD/CONTRACT	1. THIS CONT			ORDER		R	ATING	Unrated	PAGE	OF PAGES	
2 CONTRACT	(Proc. Inst. Ident.) NO.	UNDER DPA	AS (15 CFR 70)	0)			3. EFFECTIVE DATE 4. REQUISITION/PURCHASE REQUEST/PROJECT NO.				DJECT NO	
	9-C-2047								0C 1300760744	TOTIAGE RE	QOLOTII IX	DOLOT NO.
5. ISSUED BY	CODE	N00014		6. <i>F</i>	ADMINIS	TEREC	DBY (If other i			DE	S070	1A
(Darnell darnell. 875 N. R	of Naval Research (BD252) Griffin) (703) 696-2440 griffin1@navy.mil Randolph Street on VA 22203-1995			DC 13	CD-C CMA H 30 DA AST H	RLI	N ST	061	08-3234			
7 NAME AND A	ADDRESS OF CONTRACTOR (No. street country	State and 7ID Co	ude)				8. DELIVER				50	CD-A
7. NAME AND ADDRESS OF CONTRACTOR (No., street, country, State and ZIP Code)  SCIENCE APPLICATIONS INTERNATIONAL CORPORATION Attn: Joseph Keller 1710 SAIC DR MCLEAN VA 22102							ГБОВ	ORIGIN	R PROMPT PAYMENT	THER (See !	pelow)	
	la constitución de la constitución						1, ,	nless otl	CES herwise specified) s SHOWN N	See S	Sec. G	
CODE 6XW	AO	Y CODE										
11. SHIP TO/MA	ARK FOR CODE	N00014		12.	PAYME	NT WIL	L BE MADE E	BY	COD	E HQ033	37	
ATTN: Je 875 N. R Arlingto	of Naval Research eff Bradel Randolph St. on VA 22203			PC	вох	182			NTL-HQ0337			
_	Y FOR US NG OTHER THAN FULL AND OPEN CC. 2304 (c) ( ) 41 U.S.	OMPETITION: C. 3304 (a) (	)	14.	ACCOU	NTING	AND APPRO		ON DATA See Section (	3		
15A. ITEM NO	15B. SUPPL	IES/SERVICES					15C. QUANTITY	15D. UNIT	15E. UNIT PRICE		15F. AMOL	JNT
	Continued					15G. T	OTAL AMOU	NT OF C	CONTRACT		\$18	3,999,989.00
			16. TABL	E O	F CONTI	NTS			<b>P</b>			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
(X) SEC.	DESCR PTION		PAGE(S)		(X)	SEC.	DESCR PT	ION				PAGE(S)
PART I	- THE SCHEDULE				F	ART II	- CONTRACT	CLAUS	SES			
X A	SOLICITATION/CONTRACT FORM		1		X	1 00					15-24	
X B	SUPPLIES OR SERVICES AND PRICES/COSTS  DESCR PTION/SPECS./WORK STATEMENT	S	2-3 3-5		X	J J	LIST OF AT		NTS, EXHIBITS AND OT	HER ATTACI	H	24
X D	PACKAGING AND MARKING		5			- 1			NS AND NSTRUCTIONS	 S		23
ХЕ	INSPECTION AND ACCEPTANCE		5			К	REPRESEN	IOITATI	NS CERTIFICATIONS AN	ND		
X F	DELIVER ES OR PERFORMANCE		5-7 7-12						NTS OF OFFERORS			
X G	CONTRACT ADM NISTRATION DATA		12-14			L M			AND NOTICES TO OFF	ERORS		
^   H	SPECIAL CONTRACT REQUIREMENTS  CONTRACTING OFFICER WILL COMPLETE ITEM	I 17 (SEAL ED-RID	ı	ΓFD	PROCUI					APPI ICARI	F	
document and r furnish and delivations above and on an obligations of the documents: (a) representations, reference herein	ACTOR' S NEGOTIATED AGREEMENT (Contracto	r is required to signature to signature to require the signature of the remaining the	n this o I and wing	18 So inc in sh do No aw	B. SEA clicitation cluding the full above neets. The ccuments of further varding a A. NAME	Number e additue, is he is awar (a) the contract sealed OF CO	ID AWARD (Cer er tions or changereby accepted and consummate Government	es made d as to the es the country solic t is neces	or is not required to sign to $N00014-18$ be by you which additions the items listed above and contract which consists of ditation and your bid, and (sessary. (Block 18 should to the sign of the si	this document — S – B 0 0 1 or changes a lon any continue the following (b) this award	t.) Your bid  I  Ire set forth inuation I I/contract.	on ,
19B. NAME OF	CONTRACTOR	19C. DA	ATE SIGNED				ATES OF AME				20C. DATE	SIGNED
BY			_ 5.51125	ВҮ	(b		(6)					0/2019
(Signature	of person authorized to sign)			1	(Signat	ure of t	the Contractin	g Office	r)			

# **SECTION B - Supplies or Services/Prices**

# CLINs/SLINs

Item Number	Description	Quantity	Unit	Unit Price	Amount
0001	Base - The Contractor shall furnish the necessary facilities and personnel in accordance with Exhibit A and the Statement of Work.				18,999,989.00
	Award Type: Cost-plus-fixed-fee				
	Total Estimated Cost: \$17,756,998.00 Fixed Fee: \$1,242,991.00 Completion Form				
000101	Product/Service Code: AD92		LO		
	ACRN AA (Qty:0 and Amt: \$11,083,000.00) Award Type: Cost-plus-fixed-fee				
0002		1	LO		NSP
	Ballistic Coupons Award Type: Cost-plus-fixed-fee				
	Fixed Fee: \$0.00 Completion Form				
	(Not Separately Priced) Product/Service Code: AD92				
0003	Blast/Ballistic Hull Award Type: Cost-plus-fixed-fee	1	LO		NSP
	Fixed Fee: \$0.00 Completion Form				
	(Not Separately Priced) Product/Service Code: AD92				
0004	Technology Demonstrator Vehicle Award Type: Cost-plus-fixed-fee	1	LO		NSP
	Fixed Fee: \$0.00 Completion Form				
	(Not Separately Priced) Product/Service Code: AD92				
0005	Option I (Test Support) - the Contractor shall provide the personnel and equipment necessary to supervise and direct preparation of test assets, provide transport of assets in and around the test site, coordinate repair and routine maintenance during the test evaluations and support Test Readiness Reviews (TRRs), pretest validations and post-test debriefs. in accordance with Exhibit A and the Statement of Work.  Award Type: Cost-plus-fixed-fee				0.00

Item Number	Description	Quantity	Unit	Unit Price	Amount
	Total Estimated Cost: \$233,645.00				
	Fixed Fee: \$16,355.00				
	Completion Form				
	Amount: \$250,000.00				
	(Option Line Item)				
	Product/Service Code: AD92				
0006					0.00
	Option II - (Test Support) the Contractor shall				
	provide the personnel and equipment necessary				
	to supervise and direct preparation of test				
	assets, provide transport of assets in and around				
	the test site, coordinate repair and routine maintenance during the test evaluations and				
	support Test Readiness Reviews (TRRs), pre-				
	test validations and post-test debriefs in				
	accordance with Exhibit A and the Statement				
	of Work.				
	Award Type: Cost-plus-fixed-fee				
	Total Estimated Cost: \$233,645.00				
	Fixed Fee: \$16,355.00				
	Completion Form				
	Amount: \$250,000.00				
	(Option Line Item)				
	Product/Service Code: AD92				
0007					0.00
	Option III the Contractor shall manufacture and				
	deliver one (1) each Blast/Ballistic Hull for use				
	in the test program.				
	Award Type: Cost-plus-fixed-fee				
	Total Estimated Cost: \$747,664.00				
	Fixed Fee: \$52,336.00				
	Completion Form				
	Amount: \$800,000.00				
	(Option Line Item)				
	Product/Service Code: AD92				
8000					0.00
	Option IV - Ballistic Coupons				
	Award Type: Cost-plus-fixed-fee				
	Total Estimated Cost: \$186,915.00				
	Fixed Fee: \$13,085.00				
	Completion Form				
	Amount: \$200,000.00				
	(Option Line Item)				
	Product/Service Code: AD92				

The total amount of the base and exercised options is \$18,999,989.00.

The total potential amount for this action is \$20,499,989.00.

# **SECTION C - Description/Specifications**

# ONR- Statement of Work

The Contractor shall conduct the effort under CLIN 0001 in accordance with Attachment Number 1, Statement of Work, entitled "SOW" and Exhibit A, Contract Data Requirements List.

If Option I is exercised, the Contractor shall conduct the effort under CLIN 0005 in accordance with Attachment Number 1, Statement of Work, entitled "SOW" and Exhibit A, Contract Data Requirements List.

If Option II is exercised, the Contractor shall conduct the effort under CLIN 0006 in accordance with Attachment Number 1, Statement of Work, entitled "SOW" and Exhibit A, Contract Data Requirements List

If Option III is exercised, the Contractor shall conduct the effort under CLIN 0007 in accordance with Attachment Number 1, Statement of Work, entitled "SOW" and Exhibit A, Contract Data Requirements List.

If Option IV is exercised, the Contractor shall conduct the effort under CLIN 0008 in accordance with Attachment Number 1, Statement of Work, entitled "SOW" and Exhibit A, Contract Data Requirements List

### **ONR- Key Personnel**

- (a) The Contractor agrees to assign to the contract tasks those persons whose resumes were submitted with its proposal and who are necessary to fulfill the requirements of the contract as "key personnel". No substitutions may be made except in accordance with this instruction.
- (b) The Contractor understands that during the first ninety (90) days of the contract performance period, no personnel substitutions will be permitted unless these substitutions are unavoidable because of the incumbent's sudden illness, death or termination of employment. In any of these events, the Contractor shall promptly notify the Contracting Officer and provide the information described in paragraph (c) below. After the initial ninety (90) day period the Contractor must submit to the Contracting Officer all proposed substitutions, in writing, at least 30 days in advance 45 days if security clearance must be obtained, of any proposed substitution and provide the information required by paragraph (c) below.
- (c) Any request for substitution must include a detailed explanation of the circumstances necessitating the proposed substitution, a resume for the proposed substitute, and any other information requested by the Contracting Officer. Any proposed substitute must have qualifications equal to or superior to the qualifications of the incumbent. The Contracting Officer or his/her authorized representative will evaluate such requests and promptly notify the Contractor in writing of his/her approval or disapproval thereof.
- (d) In the event that any of the identified key personnel cease to perform under the contract and the substitute is disapproved, the contract may be immediately terminated in accordance with the Termination clause of the contract.

The following are identified as key personnel:

George Chryssomallis - Principal Investigator

### ONR- Acknowledgement of Sponsorship

(a) As used in DFARS 252.235-7010, 'Acknowledgement of Support and Disclaimer,' "material" also includes but is not limited to, news releases, letters to the editor, articles, abstracts, manuscripts, brochures, advertisements, photos, films, videos, slides, charts, graphs, drawings, speeches, trade association meetings, symposia, etc.

- (b) Nothing in the foregoing shall affect compliance with the requirements of the clauses of this contract entitled "Disclosure of Information" (252.204-7000) and "Security Requirements" (FAR 52.204-2 and Alternate I) if such clause is a part of the contract
- (c) The Contractor further agrees to include this provision in any subcontract awarded as a result of this contract.

# **SECTION D - Packaging and Marking**

### **ONR- Packaging and Marking**

Preservation, packaging, packing and marking of all deliverable contract line items shall conform to normal commercial packing standards to assure safe delivery at destination.

### **ONR- Report Preparation**

Scientific or technical reports prepared by the Contractor and deliverable under the terms of this contract will be prepared in contractor format.

[NOTE: All National Information Standards Organization (NISO) American National Standards are available as free, downloadable pdf(s) at http://www.niso.org/standards/index html.]

- (a) All scientific and technical reports delivered pursuant to the terms of this contract shall identify units of measurement in accordance with the International System of Units (SI) commonly referred to as the "Metric System". Conversion to U.S. customary units may also be given where additional clarity is deemed necessary. Guidance for application of the metric system is contained in the American Society of Testing Materials document entitled "Standard Practice for Use of the International System of Units (The Modernized Metric System)" (ASTM Designation E380-89A).
- (b) This provision also applies to journal article preprints, reprints, commercially published books or chapters of books, theses or dissertations submitted in lieu of a scientific and/or technical report.

# **SECTION E - Inspection and Acceptance**

### **ONR- Award Inspection and Acceptance**

Inspection and acceptance of the reports and/or other deliverables under this contract will be accomplished by the COR/Program Officer designated in Section F of this contract, who shall have thirty (30) days after contractual delivery for acceptance. If the contract includes a Not-Separately-Priced (NSP) CLIN(s) that is/are to be delivered before the current end date in the period of performance, the contractor shall use a receiving report in WAWF as a Material Inspection and Receiving Report in lieu of a DD Form 250 for each NSP CLIN due before the end of the current period. Otherwise, the receiving report required for the final report in Exhibit A can include the final report and any other NSP CLINs due at the same time.

For CLIN 0004, Inspection and Acceptance shall be conducted in accordance with the TD Acceptance Test Plan (CDRL A010).

FAR 52.246-9 Inspection of Research and Development (Short Form). (APR 1984)

# **SECTION F - Deliveries or Performance**

### **ONR- Period of Performance**

The effort performed under CLIN 0001 shall be conducted from date of award through 10 MAY 2021. CLIN 0002 shall be delivered no later than 2 JUL 2020; CLIN 0003 shall be delivered no later than 14 SEP 2020; and CLIN 0004 shall be delivered no later than 23 OCT 2020.

If Option I is exercised, the effort performed under CLIN 0005 shall be conducted from date of option exercise through 6 months.

If Option II is exercised, the effort performed under CLIN 0006 shall be conducted from date of option exercise through 6 months.

If Option III is exercised, the effort performed under CLIN 0007 shall be conducted from date of option exercise through 12 months.

If Option IV is exercised, the effort performed under CLIN 0008 shall be conducted from date of option exercise through 12 months.

The timing of the exercise of options shall be such that the total duration of the contract does not exceed 37 months as reflected in FAR 52.217-9.

### CLIN(s)/SLIN(s) will be delivered as follows:

Item/Sub Number	Item Description	Delivery Code	Delivery Address	Period of Performance (if applicable)	Delivery No Later Than (if applicable)
0001	Base - The Contractor shall furnish the necessary facilities and personnel in accordance with Exhibit A and the Statement of Work.	N00014	Office of Naval Research Attn: Jeff Bradel 875 North Randolph Street Arlington VA 22203	4/10/2019 - 5/10/2021	
0002	Ballistic Coupons	N00014	Office of Naval Research Attn: Jeff Bradel 875 North Randolph Street Arlington VA 22203		07/02/2020
0003	Blast/Ballistic Hull	N00014	Office of Naval Research Attn: Jeff Bradel 875 North Randolph Street Arlington VA 22203		09/14/2020
0004	Technology Demonstrator Vehicle	N00014	Office of Naval Research Attn: Jeff Bradel 875 North Randolph Street Arlington VA 22203		10/23/2020
0005	Option I (Test Support) - the Contractor shall provide the personnel and equipment necessary to supervise and direct preparation of test assets, provide transport of assets in and around the test site	N00014	Office of Naval Research Attn: Jeff Bradel 875 North Randolph Street Arlington VA 22203		
0006	Option II - (Test Support) the Contractor shall provide the personnel and equipment necessary to	N00014	Office of Naval Research Attn: Jeff Bradel 875 North Randolph		

Item/Sub Number	Item Description	Delivery Code	Delivery Address	Period of Performance (if applicable)	Delivery No Later Than (if applicable)
	supervise and direct preparation of test assets, provide transport of assets in and around the test sit		Street Arlington VA 22203		
	Option III the Contractor shall manufacture and deliver one (1) each Blast/Ballistic Hull for use in the test program.	N00014	Office of Naval Research Attn: Jeff Bradel 875 North Randolph Street Arlington VA 22203		
0008	Option IV - Ballistic Coupons	N00014	Office of Naval Research Attn: Jeff Bradel 875 North Randolph Street Arlington VA 22203		

The Contractor shall make best efforts to deliver the Technical Demonstrator by 30 September 2020.

- 1) Any request for a period of performance extension shall be submitted in writing to the Contracting Officer and Contracting Officer Representative (COR)/Program Officer no later than thirty (30) days prior to the expiration of the contract to allow the Government time to consider, and if approved, process the request. Requests submitted less than thirty (30) prior to the expiration of the contract may be rejected and not processed by the Government.
- 2) The request shall include (a) Contract Number, (b) Contract Line Item number (CLIN) associated with the extension, (c) current expiration date of the CLIN associated with the extension, (d) revised date for which the extension is requested, (e) the name of the COR associated with this contract and his/her Program Code, (f) the rationale as to why the extension is required, (g) status of the remaining task(s) to be completed during the extension period, (h) plan of action for completing the effort, and (i) evidence of sufficient funding under the CLIN to ensure remaining task(s) may be completed during the extension.

### ONR- Distribution of Invention Disclosures and Reports

The Contractor shall submit all invention disclosures and reports required by the Patent Rights clause of the contract to Office of Naval Research, Corporate Counsel (Code 00CC) with a copy to the Administrative Contracting Officer. The invention disclosures can either be mailed to Office of Naval Research, Department of the Navy, Corporate Counsel (Code 00CC), 875 North Randolph Street, Arlington, VA 22203-1995 or e-mailed to ONR.NCR.BDCC.list.invention.reports@navy.mil. The Corporate Counsel will provide a recommendation to the Administrative Contracting Officer. The Corporate Counsel will represent the Contracting Officer with regard to invention reporting matters arising under this contract.

### ONR- Place of Delivery

All deliverable items (e.g., prototypes and software stated in Section B, and reports and data listed in the DD1423) shall be F.O.B. Destination.

FAR 52.242-15 Stop-Work Order. (AUG 1989) - Alternate I (APR 1984)

# **SECTION G - Contract Administration Data**

ONR- Procuring Office Representative

In order to expedite administration of this contract, the Administrative Contracting Officer should direct inquiries to the appropriate office listed below. Please do not direct routine inquiries to the person listed in Item 20A on Standard Form 26.

Contract Negotiator -- Contract Negotiator -- Darnell Griffin, BD252, (P) Darnell Griffin , Email: darnell.griffin1@navy.mil

(If initial response to contract negotiator's email goes unanswered after 3 business days or the contractor knows the previous negotiator has left ONR, forward message to onr Code252ProcurementTech@navy.mil,.)

Inspection and Acceptance – Jeff Bradel, Code 33, (P) 703-588-2552, Email: jeff.bradel@navy.mil

Security Matters – Ms. Torri Powell, ONR 43, (P) (703) 696 8177, Email: torri.powell@navy mil

Patent Matters – Mr. John Forrest, ONR 00CC, (P) (703) 696-4000, Email: john forrest@navy.mil

### **ONR-** Contract Administration Delegation

In accordance with FAR 42.202, the contracting officer delegates all contract administration functions listed in FAR 42.302(a).

The Contractor is advised to direct all inquiries concerning administration of this contract to the Administrative Contracting Officer designated in Block 6 of the Standard Form 26 of this contract.

### **ONR- Award Distribution (JULY 2015)**

In accordance with the requirements of FAR 4.201, distribution is made to the contractor, program office, administrative contracting office, payment office and audit office. See the following matrix to determine the specific distribution location, which is based upon the award form used:

Distribution:	SF 26	SF 30	SF 33	SF 1449	DD1155
Contractor	See Block 7	See Block 8	See Block 15A	See Block 17a	See Block 9
Program Office	See Block 11 or Section G	See Block 6	See Block 11 or Section G	See Block 15	See Block 14
Administrative Contracting Office	See Block 6	See Block 7	See Block 24	See Block 16	See Block 7
Payment Office	See Block 12	See Block 14	See Block 25	See Block 18a	See Block 15
Auditor	See Section G	See Section G	See Section G	See Section G	See Section G

### **ONR-** Type of Award

This is a Cost-plus-fixed-fee completion type contract.

### ONR- Financial Accounting Data

ACRN	List of Item/Sub Number (LI#)	Line of Accounting (LOA)	Total Amount
AA	000101	1791319W3TP2550001400501202D000000A00004851242	\$11,083,000.00
Total Obligated Amount			\$11,083,000.00

#### ONR- Allotment of Funds

It is hereby understood and agreed that this contract will not exceed a total amount of \$18,999,989; including an estimated cost of \$17,756,998 and a fixed fee of \$1,242,991.

The total amount presently available for payment and allotted to CLIN 0001 of this contract is \$11,083,000; including an estimated cost of \$10,272,048 and a fixed fee of \$775,811. It is estimated that the amount allotted of \$11,083,000 will cover the period from date of award through 26 May 2020.

### ONR- Payment of Allowable Costs and Fixed Fee

As consideration for the proper performance of the work and services required under this contract, the Contractor shall be paid as follows:

- (a) Costs, as provided for under the contract clause entitled "Allowable Cost and Payment", not to exceed the amount set forth as "Estimated Cost" in Section B, subject to the contract clause entitled "Limitation of Cost" or "Limitation of Funds", whichever is applicable.
- (b) A fixed fee, in the amount set forth as 'Fixed Fee' in Section B, in accordance with the contract clause FAR 52.216-8 "Fixed Fee", shall be paid upon completion of the work and services required under this contract and upon final acceptance by the Contracting Officer. However, the Contractor, may bill on each voucher the amount of the fee bearing the same percentage to the total fixed fee as the amount of cost billed bears to the total estimated cost not to exceed the amount set forth as "Fixed Fee" in Section B. The total fixed fee billed, shall not exceed the total fixed fee specified in Section B and is subject to the contract clause entitled "Limitation of Cost" or "Limitation of Funds" whichever applies.
- (c) In accordance with FAR 52.216-8, "Fixed Fee", the Administrative Contracting Officer (ACO), in order to protect the Government's interest, shall withhold 10% of the fixed fee amount set forth in Section B or until a reserve is set aside in the amount of \$100,000.00, whichever is less. The fixed fee withhold should be applied to each voucher. The ACO shall release the withhold in accordance with the provisions of FAR 52.216-8.

#### ONR- Award Notification/Distribution

Office of Naval Research (ONR) award and modification documents are available via the Department of Defense (DoD) Electronic Document Access System (EDA) within the Procurement Integrated Enterprise Environment (PIEE)(https://wawf.eb mil/).

EDA is a Web-based system that provides secure online access, storage and retrieval of awards and modifications to DoD employees and vendors (including contractors and recipients).

ONR creates an award notification profile for every award prior to the execution of the award using email addresses provided in the proposal or application. The notification profile will use the email address from the Business Point of Contact in the proposal to notify the recipient of an award.

If your organization needs to correct the EDA notification profile for an ONR award, please contact us at the following email address: ONR.NCR.BD024.list.HQ@navy mil.

The following information should be provided:

- a. Email Subject: EDA Award Notification Change Request;
- b. ONR Award Number
- c. The new email address to be added to the EDA award notification profile.
- d. First name
- e. Last name
- f. Organization

IMPORTANT: In some cases, EDA notifications are appearing in recipients' Junk Email folder. If you are experiencing issues receiving EDA notifications, please check your junk email. If found, please mark EDA notifications as "not junk."

EDA inactivates user accounts for non-use after 90 days. Failure to use your account will result in inactivation. A password reset and EDA POC approval is required to reactivate accounts.

### **ONR- Payment Instructions**

The payment office shall allocate and record the amounts paid to the accounting classification citations in the contract using the table located at

https://www.acq.osd.mil/dpap/dars/pgi/pgi\_htm/current/PGI204\_71.htm#payment\_instructions based on the type of payment request submitted (see DFARS 252.232-7006) and the type of effort.

### DFARS 252.232-7006 Wide Area WorkFlow Payment Instructions. (DEC 2018)

(a) Definitions. As used in this clause-

Department of Defense Activity Address Code (DoDAAC) is a six position code that uniquely identifies a unit, activity, or organization.

Document type means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).

Local processing office (LPO) is the office responsible for payment certification when payment certification is done external to the entitlement system.

*Payment request* and *receiving report* are defined in the clause at 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

- (b) *Electronic invoicing*. The WAWF system provides the method to electronically process vendor payment requests and receiving reports, as authorized by Defense Federal Acquisition Regulation System (DFARS) 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.
- (c) WAWF access. To access WAWF, the Contractor shall-
  - (1) Have a designated electronic business point of contact in the System for Award Management at <a href="https://www.sam.gov">https://www.sam.gov</a>; and
  - (2) Be registered to use WAWF at *https://wawf.eb.mil/* following the step-by-step procedures for self-registration available at this Web site.
- (d) WAWF training. The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests

through WAWF. Both can be accessed by selecting the "Web Based Training" link on the WAWF home page at https://wawf.eb.mil/.

- (e) WAWF methods of document submission. Document submissions may be via Web entry, Electronic Data Interchange, or File Transfer Protocol.
- (f) WAWF payment instructions. The Contractor shall use the following information when submitting payment requests and receiving reports in WAWF for this contract or task or delivery order:
  - (1) *Document type*. The Contractor shall submit payment requests using the following document type(s):
    - (i) For cost-type line items, including labor-hour or time-and-materials, submit a cost youcher.
    - (ii) For fixed price line items-
      - (A) That require shipment of a deliverable, submit the invoice and receiving report specified by the Contracting Officer.
  - (B) For services that do not require shipment of a deliverable, submit either the Invoice 2in1, which meets the requirements for the invoice and receiving report, or the applicable invoice and receiving report, as specified by the Contracting Officer.
    - (iii) For customary progress payments based on costs incurred, submit a progress payment request.
    - (iv) For performance based payments, submit a performance based payment request.
    - (v) For commercial item financing, submit a commercial item financing request.
  - (2) Fast Pay requests are only permitted when Federal Acquisition Regulation (FAR) 52.213-1 is included in the contract.

(Note: The Contractor may use a WAWF "combo" document type to create some combinations of invoice and receiving report in one step.)

(3) *Document routing*. The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

### Routing Data Table\*

Field Name in WAWF	Data to be entered in WAWF
Pay Official DoDAAC	HQ0337
Issue By DoDAAC	N00014
Admin DoDAAC**	S0701A
Inspect By DoDAAC	Not Applicable

Ship To Code	Not Applicable
Ship From Code	Not Applicable
Mark For Code	Not Applicable
Service Approver (DoDAAC)	Cost – S0701A
Service Acceptor (DoDAAC)	Not Applicable
Accept at Other DoDAAC	Not Applicable
LPO DoDAAC	Not Applicable
DCAA Auditor DoDAAC	HAA50W
Other DoDAAC(s)	Not Applicable

(\*Contracting Officer: Insert applicable DoDAAC information. If multiple ship to/acceptance locations apply, insert "See Schedule" or "Not applicable.")

- (\*\* Contracting Officer: If the contract provides for progress payments or performance-based payments, insert the DoDAAC for the contract administration office assigned the functions under FAR 42.302(a)(13).)
- (4) *Payment request*. The Contractor shall ensure a payment request includes documentation appropriate to the type of payment request in accordance with the payment clause, contract financing clause, or Federal Acquisition Regulation 52.216-7, Allowable Cost and Payment, as applicable.
- (5) *Receiving report*. The Contractor shall ensure a receiving report meets the requirements of DFARS Appendix F.

Contractor must include the email address of the assigned COR referenced in the award when submitting invoices.

(g) WAWF point of contact. (1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.

For WAWF Vendor support, please contact the WAWF Help Desk (disa.ogden.esd.mbx.cscassig@mail mil; 801-605-7095); for Payment Issues, please contact the appropriate DFAS office

(http://www.dfas mil/contractorsvendors/dodaacsvc html); for additional assistance, please contact ONR.NCR.BD021.list.all@navy.mil.

(2) Contact the WAWF helpdesk at 866-618-5988, if assistance is needed.

(End of clause)

# **SECTION H - Special Contract Requirements**

ONR- Enterprise-Wide Contractor Manpower Reporting Application (ECMRA)

The contractor shall report ALL contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract for the Office of Naval Research via a secure data collection site. Contracted services excluded from reporting are based on Product Service Codes (PSCs). The excluded PSCs are:

- (1) W, Lease/Rental of Equipment;
- (2) X. Lease/Rental of Facilities:
- (3) Y, Construction of Structures and Facilities;
- (4) S, Utilities ONLY;
- (5) V, Freight and Shipping ONLY.

The contractor is required to completely fill in all required data fields using the following web address www.ecmra mil.

Reporting inputs will be for the labor executed during the period of performance during each Government fiscal year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year. Contractors may direct questions to the help desk at dod.ecmra.support.desk@mail mil.

### **ONR- Master Subcontracting Plan with Individual Goals**

The Contractor's Master Subcontracting Plan entitled Master Subcontracting Plan, dated 09/22-2016, is hereby incorporated by reference. The individual goals are incorporated herein as Attachment Number 3 to the contract.

### ONR-DD254

A DD254 is provided in Section J as Attachment Number 2.

### **ONR-** Technical Direction

- (a) Performance of the work hereunder is subject to the technical direction of the Program Officer/COR designated in this contract, or duly authorized representative. Technical direction includes the following:
- (1) Direction to the Contractor which shifts work emphasis between work areas or tasks, requires pursuit of certain lines of inquiry, fills in details or otherwise serves to accomplish the objectives described in the statement of work;
- (2) Guidelines to the Contractor which assist in the interpretation of drawings, specifications or technical portions of work description.
- (b) Technical direction must be within the general scope of work stated in the contract. Technical direction may not be used to:
- (1) Assign additional work under the contract;
- (2) Direct a change as defined in the contract clause entitled "Changes";
- (3) Increase or decrease the estimated contract cost, the fixed fee, or the time required for contract performance; or
- (4) Change any of the terms, conditions or specifications of the contract.

- (c) The only individual authorized to in any way amend or modify any of the terms of this contract shall be the Contracting Officer. When, in the opinion of the Contractor, any technical direction calls for effort outside the scope of the contract or inconsistent with this special provision, the Contractor shall notify the Contracting Officer in writing within ten working days after its receipt. The Contractor shall not proceed with the work affected by the technical direction until the Contractor is notified by the Contracting Officer that the technical direction is within the scope of the contract.
- (d) Nothing in the foregoing paragraphs may be construed to excuse the Contractor from performing that portion of the work statement which is not affected by the disputed technical direction.

### **ONR-** Government Furnished Property

In performance of the statement of work, the Government shall provide the contractor with the government furnished property (GFP). The GFP provided will consist of either XM813 30-mm or Mk44 30-mm. The GFP will be provided by 1 May 2020.

The Government shall deliver the GFP to the following address:

SAIC 7410 A Magi Rd. Hanahan, SC 29410

Upon completion of the award, the GFP will be returned to:

TBD

#### **ONR- Pre-Contract Costs**

In accordance with FAR 31.205-32, all costs which have been incurred by the Contractor on or after 7 January 2019 and before the effective date of this contract, where their incurrence is necessary to comply with the proposed schedule, will be considered allowable only to the extent that they would have been allowable if incurred after the date of contract award and only to a maximum of \$1,170,731 through the date of contract award.

#### **ONR Contractor Provided Items**

To incorporate cost savings and maximize efficient use of available Government funding, the Contractor intends to install on the Technology Demonstrator and provide on a temporary basis the items listed below. These items have been made available to the Contractor from various suppliers who desire the return of their property once Government testing and evaluation of the Technology Demonstrator under this contract is complete. Contractor will provide the below listed items for the duration of the base period and for an additional period of twelve months thereafter. The Government agrees that at the expiration of aforementioned twelve-month period, it will provide the Contractor access to the Technology Demonstrator so that the Contractor may remove the items.

The Contractor is authorized to invoice for the cost to repair or replace damaged or missing items, reasonable wear and tear excepted, in accordance with the terms of FAR 52.216-7, Allowable Cost and Payment. Reimbursement will be subject to FAR 52.232-20, Limitation of Cost, and FAR 52.232-22, Limitation of Funds.

The Contractor intends to install the following items in the quantities shown:

- a. Gunner and Commander Sights 2 each
- b. EW System Signal Detection 1 each
- c. 360 SA and Laser Warning System (Laser Detect 360) 1 each
- d. C4ISR 1 each
- e. Soft-Kill CUAS 1 each
- f. Intercom (VT Miltope) 1 each
- g. UAV 1 each

# **SECTION I - Contract Clauses**

### FAR 52.252-2 Clauses Incorporated by Reference. (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): https://www.acquisition.gov/

(End of clause)

### Clauses Included by Reference

Clause Database	Clause Number	Clause Title
FAR	52.202-1	Definitions. (NOV 2013)
FAR	52.203-3	Gratuities. (APR 1984)
FAR	52.203-5	Covenant Against Contingent Fees. (MAY 2014)
FAR	52.203-6	Restrictions on Subcontractor Sales to the Government. (SEP 2006)
FAR	52.203-7	Anti-Kickback Procedures. (MAY 2014)
FAR	52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity. (MAY 2014)
FAR	52.203-10	Price or Fee Adjustment for Illegal or Improper Activity. (MAY 2014)
FAR	52.203-12	Limitation on Payments to Influence Certain Federal Transactions. (OCT 2010)
FAR	52.203-17	Contractor Employee Whistleblower Rights and Requirement To Inform Employees of Whistleblower Rights. (APR 2014)
FAR	52.203-19	Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements. (JAN 2017)
FAR	52.204-4	Printed or Copied Double-Sided on Postconsumer Fiber Content Paper. (MAY 2011)
FAR	52.204-13	System for Award Management Maintenance. (OCT 2018)
FAR	52.204-18	Commercial and Government Entity Code Maintenance. (JUL 2016)
FAR	52.204-19	Incorporation by Reference of Representations and Certifications. (DEC 2014)
FAR	52.204-21	Basic Safeguarding of Covered Contractor Information Systems. (JUN 2016)
FAR	52.204-23	Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities. (JUL 2018)
FAR	52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment. (OCT 2015)
FAR	52.209-10	Prohibition on Contracting With Inverted Domestic Corporations. (NOV 2015)
FAR	52.215-2	Audit and Records - Negotiation. (OCT 2010)
FAR	52.215-8	Order of Precedence - Uniform Contract Format. (OCT 1997)
FAR	52.215-12	Subcontractor Certified Cost or Pricing Data. (OCT 2010)
FAR	52.215-14	Integrity of Unit Prices. (OCT 2010)
FAR	52.216-7	Allowable Cost and Payment. (AUG 2018)
FAR	52.216-8	Fixed Fee. (JUN 2011)
FAR	52.219-8	Utilization of Small Business Concerns. (OCT 2018)
FAR	52.219-9	Small Business Subcontracting Plan. (AUG 2018)
FAR	52.219-9	Small Business Subcontracting Plan. (AUG 2018) - Alternate II (NOV 2016)
FAR	52.219-28	Post-Award Small Business Program Rerepresentation. (JUL 2013)
FAR	52.222-2	Payment for Overtime Premiums. (JUL 1990)
FAR	52.222-3	Convict Labor. (JUN 2003)
FAR	52.222-21	Prohibition of segregated facilities. (APR 2015)
FAR	52.222-26	Equal Opportunity. (SEP 2016)
FAR	52.222-37	Employment Reports on Veterans. (FEB 2016)

Clause Database	Clause Number	Clause Title
FAR	52.222-50	Combating Trafficking in Persons. (JAN 2019)
FAR	52.222-54	Employment Eligibility Verification. (OCT 2015)
FAR	52.223-6	Drug-Free Workplace. (MAY 2001)
FAR	52.223-18	Encouraging Contractor Policies To Ban Text Messaging While Driving. (AUG 2011)
FAR	52.225-13	Restrictions on Certain Foreign Purchases. (JUN 2008)
FAR	52.227-1	Authorization and Consent. (DEC 2007)
FAR	52.227-1	Authorization and Consent. (DEC 2007) Alternate I (APR 1984)
FAR	52.227-2	Notice and Assistance Regarding Patent and Copyright Infringement. (DEC 2007)
FAR	52.227-10	Filing of Patent Applications - Classified Subject Matter. (DEC 2007)
FAR	52.228-7	Insurance - Liability to Third Persons. (MAR 1996)
FAR	52.232-9	Limitation on Withholding of Payments. (APR 1984)
FAR	52.232-17	Interest. (MAY 2014)
FAR	52.232-20	Limitation of Cost. (APR 1984)
FAR	52.232-22	Limitation of Funds. (APR 1984)
FAR	52.232-23	Assignment of Claims. (MAY 2014)
FAR	52.232-25	Prompt Payment. (JAN 2017) - Alternate I (FEB 2002)
FAR	52.232-33	Payment by Electronic Funds Transfer - System for Award Management. (OCT 2018)
FAR	52.232-39	Unenforceability of Unauthorized Obligations. (JUN 2013)
FAR	52.232-40	Providing Accelerated Payments to Small Business Subcontractors. (DEC 2013)
FAR	52.233-1	Disputes. (MAY 2014)
FAR	52.233-3	Protest After Award. (AUG 1996) - Alternate I (JUN 1985)
FAR	52.233-4	Applicable Law for Breach of Contract Claim. (OCT 2004)
FAR	52.242-1	Notice of Intent to Disallow Costs. (APR 1984)
FAR	52.242-4	Certification of Final Indirect Costs. (JAN 1997)
FAR	52.242-5	Payments to Small Business Subcontractors. (JAN 2017)
FAR	52.242-13	Bankruptey. (JUL 1995)
FAR	52.243-2	Changes - Cost-Reimbursement. (AUG 1987) - Alternate V (APR 1984)
FAR	52.244-5	Competition in Subcontracting. (DEC 1996)
FAR	52.245-1	Government Property. (JAN 2017)
FAR	52.245-9	Use and Charges. (APR 2012)
FAR		
	52.246-23	Limitation of Liability. (FEB 1997)
FAR FAR	52.249-6 52.249-14	Termination (Cost-Reimbursement). (MAY 2004)  Excusable Delays. (APR 1984)
FAR	52.253-1	
		Computer Generated Forms. (JAN 1991)
DFARS DFARS	252.203-7000 252.203-7001	Requirements Relating to Compensation of Former DoD Officials. (SEP 2011)  Prohibition on persons convicted of fraud or other defense-contract-related felonies. (DEC 2008)
DFARS	252.203-7002	Requirement to Inform Employees of Whistleblower Rights. (SEP 2013)
DFARS	252.204-7000	Disclosure of information. (OCT 2016)
DEARS	252.204-7002	Payment for subline items not separately priced. (DEC 1991)
DEARS	252.204-7003	Control of government personnel work product. (APR 1992)  Oral attestation of security responsibilities. (NOV 2001)
DEARS	252.204-7005	Billing instructions. (OCT 2005)
DFARS DFARS	252.204-7006 252.204-7012	Safeguarding covered defense information and cyber incident reporting. (OCT 2016)
DFARS	252.209-7004	Subcontracting with Firms that are Owned or Controlled by the Government of a Country that is a State Sponsor of Terrorism. (OCT 2015)
DFARS	252.211-7003	Item unique identification and valuation. (MAR 2016)
DFARS	252.211-7007	Reporting of Government-Furnished Property. (AUG 2012)
DFARS	252.211-7008	Use of Government-assigned Serial Numbers. (SEP 2010)
DFARS	252.223-7004	Drug-free work force. (SEP 1988)

Clause Database	Clause Number	Clause Title
DFARS	252.225-7012	Preference for certain domestic commodities. (DEC 2017)
DFARS	252.225-7048	Export-Controlled Items. (JUN 2013)
DFARS	252.227-7013	Rights in technical data-Noncommercial items. (FEB 2014)
DFARS	252.227-7014	Rights in noncommercial computer software and noncommercial computer software documentation. (FEB 2014)
DFARS	252.227-7016	Rights in bid or proposal information. (JAN 2011)
DFARS	252.227-7017	Identification and assertion of use, release, or disclosure restrictions. (JAN 2011)
DFARS	252.227-7019	Validation of asserted restrictions-Computer software. (SEP 2016)
DFARS	252.227-7025	Limitations on the Use or Disclosure of Government-Furnished Information Marked with Restrictive Legends. (MAY 2013)
DFARS	252.227-7027	Deferred ordering of technical data or computer software. (APR 1988)
DFARS	252.227-7030	Technical data - withholding of payment. (MAR 2000)
DFARS	252.227-7037	Validation of restrictive markings on technical data. (SEP 2016)
DFARS	252.227-7038	Patent Rights - Ownership by the Contractor (Large Business). (JUN 2012)
DFARS	252.231-7000	Supplemental cost principles. (DEC 1991)
DFARS	252.232-7003	Electronic Submission of Payment Requests and Receiving Reports. (DEC 2018)
DFARS	252.232-7010	Levies on Contract Payments. (DEC 2006)
DFARS	252.242-7004	Material Management and Accounting System. (MAY 2011)
DFARS	252.242-7005	Contractor business systems. (FEB 2012)
DFARS	252.242-7006	Accounting system administration. (FEB 2012)
DFARS	252.243-7002	Requests for equitable adjustment. (DEC 2012)
DFARS	252.244-7001	Contractor purchasing system administration. (MAY 2014)
DFARS	252.245-7001	Tagging, labeling, and marking of government-furnished property (APR 2012)
DFARS	252.245-7002	Reporting Loss of Government Property. (DEC 2017)
DFARS	252.245-7003	Contractor Property Management System Administration. (APR 2012)
DFARS	252.245-7004	Reporting, Reutilization, and Disposal. (DEC 2017)
DFARS	252.246-7001	Warranty of data. (MAR 2014)
DFARS	252.246-7008	Sources of Electronic Parts. (MAY 2018)
DFARS	252.247-7023	Transportation of supplies by sea. (FEB 2019)

#### Clauses Included by Full Text

### FAR 52.204-2 Security Requirements. (AUG 1996)

- (a) This clause applies to the extent that this contract involves access to information classified *Confidential, Secret,* or *Top Secret.*
- (b) The Contractor shall comply with (1) the Security Agreement (DD Form 441), including the *National Industrial Security Program Operating Manual* (DOD 5220.22-M), and (2) any revisions to that manual, notice of which has been furnished to the Contractor.
- (c) If, subsequent to the date of this contract, the security classification or security requirements under this contract are changed by the Government and if the changes cause an increase or decrease in security costs or otherwise affect any other term or condition of this contract, the contract shall be subject to an equitable adjustment as if the changes were directed under the Changes clause of this contract.
- (d) The Contractor agrees to insert terms that conform substantially to the language of this clause, including this paragraph (d) but excluding any reference to the Changes clause of this contract, in all subcontracts under this contract that involve access to classified information.

(End of clause)

### FAR 52.217-9 Option To Extend the Term of the Contract. (MAR 2000)

- (a) The Government may extend the term of this contract by written notice to the Contractor within one day of the expiration of the contract; provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 1days (60 days unless a different number of days is inserted) before the contract expires. The preliminary notice does not commit the Government to an extension.
- (b) If the Government exercises this option, the extended contract shall be considered to include this option clause.
- (c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed 37(months)(years).

(End of clause)

### FAR 52.222-35 Equal Opportunity for Veterans. (OCT 2015)

(a) Definitions. As used in this clause-

"Active duty wartime or campaign badge veteran," "Armed Forces service medal veteran," "disabled veteran," "protected veteran," "qualified disabled veteran," and "recently separated veteran" have the meanings given at FAR 22.1301.

- (b) Equal opportunity clause. The Contractor shall abide by the requirements of the equal opportunity clause at 41 CFR 60-300.5(a), as of March 24, 2014. This clause prohibits discrimination against qualified protected veterans, and requires affirmative action by the Contractor to employ and advance in employment qualified protected veterans.
- (c) Subcontracts. The Contractor shall insert the terms of this clause in subcontracts of \$150,000 or more unless exempted by rules, regulations, or orders of the Secretary of Labor. The Contractor shall act as specified by the Director, Office of Federal Contract Compliance Programs, to enforce the terms, including action for noncompliance. Such necessary changes in language may be made as shall be appropriate to identify properly the parties and their undertakings.

(End of clause)

### FAR 52.222-36 Equal Opportunity for Workers with Disabilities. (JUL 2014)

- (a) Equal opportunity clause. The Contractor shall abide by the requirements of the equal opportunity clause at 41 CFR 60-741.5(a), as of March 24, 2014. This clause prohibits discrimination against qualified individuals on the basis of disability, and requires affirmative action by the Contractor to employ and advance in employment qualified individuals with disabilities.
- (b) Subcontracts. The Contractor shall include the terms of this clause in every subcontract or purchase order in excess of \$15,000 unless exempted by rules, regulations, or orders of the Secretary, so that such provisions will be binding upon each subcontractor or vendor. The Contractor shall act as specified by the Director, Office of Federal Contract Compliance Programs of the U.S. Department of Labor, to enforce the terms, including action for noncompliance. Such necessary changes in language may be made as shall be appropriate to identify properly the parties and their undertakings.

(End of clause)

### **FAR 52.244-2 Subcontracts. (OCT 2010)**

(a) Definitions. As used in this clause-

Approved purchasing system means a Contractor's purchasing system that has been reviewed and approved in accordance with Part 44 of the Federal Acquisition Regulation (FAR).

Consent to subcontract means the Contracting Officer's written consent for the Contractor to enter into a particular subcontract.

*Subcontract* means any contract, as defined in FAR Subpart 2.1, entered into by a subcontractor to furnish supplies or services for performance of the prime contract or a subcontract. It includes, but is not limited to, purchase orders, and changes and modifications to purchase orders.

- (b) When this clause is included in a fixed-price type contract, consent to subcontract is required only on unpriced contract actions (including unpriced modifications or unpriced delivery orders), and only if required in accordance with paragraph (c) or (d) of this clause.
- (c) If the Contractor does not have an approved purchasing system, consent to subcontract is required for any subcontract that-
  - (1) Is of the cost-reimbursement, time-and-materials, or labor-hour type; or
  - (2) Is fixed-price and exceeds-
    - (i) For a contract awarded by the Department of Defense, the Coast Guard, or the National Aeronautics and Space Administration, the greater of the simplified acquisition threshold or 5 percent of the total estimated cost of the contract; or
    - (ii) For a contract awarded by a civilian agency other than the Coast Guard and the National Aeronautics and Space Administration, either the simplified acquisition threshold or 5 percent of the total estimated cost of the contract.
- (d) If the Contractor has an approved purchasing system, the Contractor nevertheless shall obtain the Contracting Officer's written consent before placing the following subcontracts: N/A
- (e)(1) The Contractor shall notify the Contracting Officer reasonably in advance of placing any subcontract or modification thereof for which consent is required under paragraph (b), (c), or (d) of this clause, including the following information:
  - (i) A description of the supplies or services to be subcontracted.
  - (ii) Identification of the type of subcontract to be used.
  - (iii) Identification of the proposed subcontractor.
  - (iv) The proposed subcontract price.
  - (v) The subcontractor's current, complete, and accurate certified cost or pricing data and Certificate of Current Cost or Pricing Data, if required by other contract provisions.
  - (vi) The subcontractor's Disclosure Statement or Certificate relating to Cost Accounting Standards when such data are required by other provisions of this contract.
  - (vii) A negotiation memorandum reflecting-
    - (A) The principal elements of the subcontract price negotiations;
    - (B) The most significant considerations controlling establishment of initial or revised prices;

- (C) The reason certified cost or pricing data were or were not required;
- (D) The extent, if any, to which the Contractor did not rely on the subcontractor's certified cost or pricing data in determining the price objective and in negotiating the final price;
- (E) The extent to which it was recognized in the negotiation that the subcontractor's certified cost or pricing data were not accurate, complete, or current; the action taken by the Contractor and the subcontractor; and the effect of any such defective data on the total price negotiated;
- (F) The reasons for any significant difference between the Contractor's price objective and the price negotiated; and
- (G) A complete explanation of the incentive fee or profit plan when incentives are used. The explanation shall identify each critical performance element, management decisions used to quantify each incentive element, reasons for the incentives, and a summary of all trade-off possibilities considered.
- (2) The Contractor is not required to notify the Contracting Officer in advance of entering into any subcontract for which consent is not required under paragraph (b), (c), or (d) of this clause.
- (f) Unless the consent or approval specifically provides otherwise, neither consent by the Contracting Officer to any subcontract nor approval of the Contractor's purchasing system shall constitute a determination-
  - (1) Of the acceptability of any subcontract terms or conditions;
  - (2) Of the allowability of any cost under this contract; or
  - (3) To relieve the Contractor of any responsibility for performing this contract.
- (g) No subcontract or modification thereof placed under this contract shall provide for payment on a cost-plus-a-percentage-of-cost basis, and any fee payable under cost-reimbursement type subcontracts shall not exceed the fee limitations in FAR 15.404-4(c)(4)(i).
- (h) The Contractor shall give the Contracting Officer immediate written notice of any action or suit filed and prompt notice of any claim made against the Contractor by any subcontractor or vendor that, in the opinion of the Contractor, may result in litigation related in any way to this contract, with respect to which the Contractor may be entitled to reimbursement from the Government.
- (i) The Government reserves the right to review the Contractor's purchasing system as set forth in FAR Subpart 44.3.
- (j) Paragraphs (c) and (e) of this clause do not apply to the following subcontracts, which were evaluated during negotiations: Maritime Applied Physics Corporation \$5,715,457 3DOM \$143,554 Fathom 4 \$120,275

(End of clause)

### FAR 52.244-6 Subcontracts for Commercial Items. (JAN 2019)

(a) Definitions. As used in this clause-

Commercial item and commercially available off-the-shelf item have the meanings contained in Federal Acquisition Regulation 2.101, Definitions.

*Subcontract* includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.

- (b) To the maximum extent practicable, the Contractor shall incorporate, and require its subcontractors at all tiers to incorporate, commercial items or nondevelopmental items as components of items to be supplied under this contract.
- (c)(1) The Contractor shall insert the following clauses in subcontracts for commercial items:
  - (i) 52.203-13, Contractor Code of Business Ethics and Conduct (OCT 2015) (41 U.S.C. 3509), if the subcontract exceeds \$5.5 million and has a performance period of more than 120 days. In altering this clause to identify the appropriate parties, all disclosures of violation of the civil False Claims Act or of Federal criminal law shall be directed to the agency Office of the Inspector General, with a copy to the Contracting Officer.
  - (ii) 52.203-15, Whistleblower Protections Under the American Recovery and Reinvestment Act of 2009 (JUN 2010) (Section 1553 of Pub. L. 111-5), if the subcontract is funded under the Recovery Act.
  - (iii) 52.203-19, Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (JAN 2017).
  - (iv) 52.204-21, Basic Safeguarding of Covered Contractor Information Systems (JUN 2016), other than subcontracts for commercially available off-the-shelf items, if flow down is required in accordance with paragraph (c) of FAR clause 52.204-21.
  - (v) 52.204-23, Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities (JUL 2018) (Section 1634 of Pub. L. 115-91).
  - (vi) 52.219-8, Utilization of Small Business Concerns (OCT 2018) (15 U.S.C. 637(d)(2) and (3)), if the subcontract offers further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$700,000 (\$1.5 million for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.
  - (vii) 52.222-21, Prohibition of Segregated Facilities (APR 2015).
  - (viii) 52.222-26, Equal Opportunity (SEP 2016) (E.O. 11246).
  - (ix) 52.222-35, Equal Opportunity for Veterans (OCT 2015)(38 U.S.C. 4212(a));
  - (x) 52.222-36, Equal Opportunity for Workers with Disabilities (JUL 2014) (29 U.S.C. 793).
  - (xi) 52.222-37, Employment Reports on Veterans (FEB 2016) (38 U.S.C. 4212).
  - (xii) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (DEC 2010) (E.O. 13496), if flow down is required in accordance with paragraph (f) of FAR clause 52.222-40.

- (xiii)(A) 52.222-50, Combating Trafficking in Persons (JAN 2019) (22 U.S.C. chapter 78 and E.O. 13627).
  - (B) Alternate I (MAR 2015) of 52.222-50 (22 U.S.C. chapter 78 and E.O. 13627).
- (xiv) 52.222-55, Minimum Wages under Executive Order 13658 (DEC 2015), if flowdown is required in accordance with paragraph (k) of FAR clause 52.222-55.
- (xv) 52.222-62, Paid Sick Leave Under Executive Order 13706 (JAN 2017) (E.O. 13706), if flowdown is required in accordance with paragraph (m) of FAR clause 52.222-62.
  - (B) Alternate I (JAN 2017) of 52.224-3, if flow down is required in accordance with 52.224-3(f) and the agency specifies that only its agency-provided training is acceptable).
- (xvi)(A) 52.224-3, Privacy Training (JAN 2017) (5 U.S.C. 552a) if flow down is required in accordance with 52.224-3(f).
  - (B) Alternate I (JAN 2017) of 52.224-3, if flow down is required in accordance with 52.224-3(f) and the agency specifies that only its agency-provided training is acceptable).
- (xvii) 52.225-26, Contractors Performing Private Security Functions Outside the United States (Oct 2016) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. 2302 Note).
- (xviii) 52.232-40, Providing Accelerated Payments to Small Business Subcontractors (DEC 2013), if flow down is required in accordance with paragraph (c) of FAR clause 52.232-40.
- (xix) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (FEB 2006) (46 U.S.C. App. 1241 and 10 U.S.C. 2631), if flow down is required in accordance with paragraph (d) of FAR clause 52.247-64.
- (2) While not required, the Contractor may flow down to subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.
- (d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

(End of clause)

### FAR 52.252-4 Alterations in Contract. (APR 1984)

Portions of this contract are altered as follows: Revisions or supplements after issuance of the solicitation or contract award will occur via amendment or modification.

(End of clause)

### FAR 52.252-6 Authorized Deviations in Clauses. (APR 1984)

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of \$(DEVIATION) after the date of the clause.

(b) The use in this solicitation or contract of any Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2) clause with an authorized deviation is indicated by the addition of \$(DEVIATION) after the name of the regulation.

(End of clause)

### FAR Deviations 52.219-9 52.219-9 Small Business Subcontracting Plan. (DEVIATION 2018-O0018)

\* \* \* \* \*

(d) The Offeror's subcontracting plan shall include the following:

\* \* \* \* \*

(11) A description of the types of records that will be maintained concerning procedures that have been adopted to comply with the requirements and goals in the plan, including establishing source lists; and a description of the offeror's efforts to locate small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns and award subcontracts to them. The records shall include at least the following (on a plant-wide or company-wide basis, unless otherwise indicated):

\* \* \* \* \*

(iii) Records on each subcontract solicitation resulting

in an award of more than the simplified acquisition threshold,

indicating-

\* \* \* \* \*

### DFARS 252.235-7011 Final scientific or technical report. (JAN 2015)

The Contractor shall-

- (a) Submit an electronic copy of the approved final scientific or technical report, not a summary, delivered under this contract to the Defense Technical Information Center (DTIC) through the web-based input system at http://www.dtic.mil/dtic/submit/ as required by DoD Instruction 3200.12, DoD Scientific and Technical Information Program (STIP). Include a completed Standard Form (SF) 298, Report Documentation Page, in the document, or complete the web-based SF 298.
- (b) For instructions on submitting multi-media reports, follow the instructions at http://www.dtic mil/dtic/submit.
- (c) Email classified reports (up to Secret) to TR@DTIC.SMIL.MIL. If a SIPRNET email capability is not available, follow the classified submission instructions at http://www.dtic.mil/dtic/submit/.

(End of clause)

# DFARS Deviations 252.225-7978 RESTRICTION ON ACQUISITION OF CERTAIN MAGNETS AND TUNGSTEN (JAN 2019) (DEVIATION 2019-00006)

(a) Definitions. As used in this clause—

"Covered material" means-

(1) Samarium-cobalt magnets;

- (2) Neodymium-iron-boron magnets;
- (3) Tungsten metal powder; and
- (4) Tungsten heavy alloy or any finished or semi-finished component containing tungsten heavy alloy.
- "Covered country" means—
- (1) The Democratic People's Republic of North Korea;
- (2) The People's Republic of China;
- (3) The Russian Federation; and
- (4) The Islamic Republic of Iran.
- (b)(1) Except as provided in paragraph (c) of this clause, the Contractor shall not deliver under this contract any covered material melted or produced in any covered country or any end item, manufactured in any covered country, that contains a covered material.
- (2) For samarium-cobalt magnets and neodymium iron-boron magnets, this restriction includes—
- (i) Melting samarium with cobalt to produce the samarium-cobalt alloy or melting neodymium with iron and boron to produce the neodymium-iron-boron alloy; and
- (ii) All subsequent phases of production of the magnets, such as powder formation, pressing, sintering or bonding, and magnetization.
- (3) The restriction on melting and producing of samarium-cobalt magnets is in addition to any applicable restrictions on melting of specialty metals if the clause at 252.225-7009, Restriction on Acquisition of Certain Articles Containing Specialty Metals, is included in the contract.
- (c) This clause does not apply—
- (1) To an end item that is-
- (i) A commercially available off-the-shelf item, other than—
- (A) A commercially available off-the-shelf item that is 50 percent or more tungsten by weight; or
- (B) A tungsten heavy alloy mill product, such as bar, billet, slab, wire, cube, sphere, block, blank, plate, or sheet, that had not been incorporated into an end item, subsystem, assembly, or component;
- (ii) An electronic device, unless otherwise specified in the contract; or
- (iii) A neodymium-iron-boron magnet manufactured from recycled material if the milling of the recycled material and sintering of the final magnet takes place in the United States.
- (2) If the authorized agency official concerned has made a nonavailability determination that covered materials of satisfactory quality and quantity, in the required form, cannot be procured as and when needed at a reasonable price from a source other than a covered country.

(End of clause)

# SECTION J - List of Documents, Exhibits and Other Attachments

Number	Title	Number of
		Pages

Number	Title	Number of Pages
A	Exhibit A	13
Encl 1	Enclosure 1 to Exhibit A	2
1	Statement of Work	21
2	DD254	6
3	Subcontracting Goals	11
4	COR Appointment Letter	5

# **CONTRACT DATA REQUIREMENTS LIST**

Form Approved OMB No. 0704-0188

(20 Data Items)

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188). 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any search of the comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETIRBN your form to the above address. Send

penalty for failing to cor completed form to the G					currently valid OMB control number. No. Listed in Block E.	Ple	ase DO NOT RETURN your	form to the ab	ove add	ress. Send
A. CONTRACT LIN			EXHIBIT		C. CATEGORY					
All CLINs		A			TDPTM		OTHER X	-		į
D. SYSTEM/ITEM			1	E CO	NTRACT/PR NO.	177	CONTRACTOR			
At the Edge					4-19-C-2047		cience Applications	Internat	ional	į
						Сс	rporation			
1. DATA ITEM NO.	2. TITLE OF DA	TA ITEM				3.	SUBTITLE			į
A001	Progre	es Penort	e (Tech	nical	and Financial)					į
							C DECUTDING OFFI	O.E.		<u> </u>
4. AUTHORITY (Da Document No.)	ata Acquisition		5. CON	TRACT	REFERENCE		6. REQUIRING OFFI	CE		į
										į
				9.0	ee Section C.4.2		900	Section F		į
7. DD 250 REQ	9. DIST	10 FREQUE	NCY		12. DATE OF FIRST		566	OCCUPION 1		+
_	STATEMENT	-			SUBMISSION		14. DISTRIBUTION			1
NO	REQUIRED	M	THLY		See Block 16					
8. APP CODE		11. AS OF	י האתבי		13. DATE OF SUBSEQUENT		-	b.	COPI	ES
	See Block 16			_	SUBMISSION		a. ADDRESSEE	Draft	F	inal
N/A		See I	Block 1	6	See Block 16				Reg	Repro
16. REMARKS							See Enclosure #1			
					ude a description of the					
	completed and a or the next repo				the reporting period and uld include	d				
identification	of any problems	s/issues a	nd pote	ntial :	solutions. Any known					
					nce characteristics must e change occurred. A	t				
					xpenses incurred during					
1 2 1		_		4 4	enditures relative to th	he				
					amount obligated, and the Integrated Master					
Schedule (IMS).	These reports	are not i	ntended	to be	burdensome and are					
					ngth. All reports should nd innovation in platfor					
design.	s on modulaticy	, open ar	CIII CECC	uie, ai	id imiovacion in piacion	LIII				
					horized to Department of	f				
					e or Operational Use) e referred to Code 33,		15. TOTAL			
					t applies to CDRL A001		IJ. IUIAL			
only.										
Block 11: Cont Block 12: First				davs af	ter the date of contract	t				
	: Subsequent sul	omissions			days until contract end					
1. DATA ITEM NO.	2. TITLE OF DA	TA ITEM				3.	SUBTITLE			
A002		Me	eeting N	Minutes						
4. AUTHORITY (Da Document No.)	ata Acquisition		5. CON	TRACT 1	REFERENCE		6. REQUIRING OFFI	CE		į
Document No.)										į
			_							į
			See		on C.4.1, C.4.3, C.4.4, 5, C.4.10, C.4.13		See	Section F		į
7. DD 250 REQ	9. DIST	10 FREQUE	NCY	0.11	12. DATE OF FIRST					İ
	STATEMENT				SUBMISSION		14. DISTRIBUTION			į
NO	REQUIRED	As r	equired	l	See Block 16				2027	<u> </u>
8. APP CODE		11. AS OF	י האידור		13. DATE OF SUBSEQUENT		-	b.	COPI	ES
	See Block 16				SUBMISSION		a. ADDRESSEE	Draft	F	inal
N/A		See B	lock 16		See Block 16				Reg	Repro
16. REMARKS							See Enclosure #1			i
					mmarize meeting					
	cisions, and ca data items A00		action	items	at the meetings					
			tributi	on autl	norized to Department of	£				
Defense and U.S	. DoD contracto	ors only (	Adminis	trative	e or Operational Use)	•				
					e referred to Code 33,					i
only.	. kesearon. This	DISTIDU	CION St	a cement	t applies to CDRL A002					i
-	ract/delivery o	order awar	d.							i
	Due within 7 ca			r note	d meetings.					
+-, +0.										
										į
							15. TOTAL			i

17. PRICE GROUP ESTIMATED TOTAL PRICE

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

G. Prepared By:	н.	I. Approved By:	J.
Jeff Bradel	25 Feb 2019	Darnell Griffin	25 Feb 2019

1. DATA	2. TITLE OF D	AMA THEM				2 61	UBTITLE			
ITEM NO.	Z. TITLE OF L	ATA IIEM				3. 5	DRITTLE			
A003		Integra	ted Master So	chedul	е					
	(Data Reminit						C PROVEDENCE OFFICE			
Document No.	(Data Acquisit	1011	5. CONTRACT	r KEFE	RENCE		6. REQUIRING OFFIC	Æ		
2004	, ,			See S	Section C.2		See Sect	ion F		
7. DD 250	9. DIST	10 FREOI	TENCY	12	DATE OF FIRST					
REQ	STATEMENT	IO PRESC	JENCI				14. DISTRIBUTION			
-	REQUIRED	Qu	arterly		See Block 16					
NO								ŀ	. COP	IES
8. APP CODE	See Block 16	11. AS (	OF DATE		DATE OF SUBSEQUEN	T	a. ADDRESSEE	D	Fi	nal
N/A		See	Block 16	SU	See Block 16			Dra ft		Ι_
					Dec Brock 10				Reg	Repr
16. REMARKS							See Enclosure #1			
An Integrate	d Master Schedu	ıle shall	be provided	that	details the tasks	İ				
						. +				
				quarte	rly and provided	in				
PDF and/or M	icrosoft Proje	ct format	Es.			Ī				
Block 9: Dis	tribution State	ement D.	Distribution	n auth	orized to Departm	ent				
						т				
		esearch. '	This Distrik	oution	Statement applie	s				
to CDRL A003	OHLY.									
Block 11: C	Contract/delive	ry order	award. Block	12:	Due at kickoff	Ī				
meeting.										
D1 1 10 0	1									
Block 13: Su meeting.	ıbsequent update	ed shall	be provided	at eac	h major review		15 moma-			
meeting.										l .
							15. TOTAL			
							15. TOTAL			
							15. TOTAL			
J							15. TOTAL			
G. PREPARED	ву		H. DATE		I. APPROVED BY		15. TOTAL	J. D2	ATE	
	ВУ				I. APPROVED BY Darnell Griffin		15. TOTAL		ATE ab 201:	9
G. PREPARED	ву		<b>H. DATE</b> 25 Feb 2019				15. TOTAL			9
G. PREPARED Jeff Bradel 1. DATA		ATA ITEM				3. su	BTITLE			9
G. PREPARED Jeff Bradel	2. TITLE OF D		25 Feb 2019		Darnell Griffin	3. su				9
G. PREPARED Jeff Bradel 1. DATA	2. TITLE OF D		25 Feb 2019	iefing	Darnell Griffin	3. su				•
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004	2. TITLE OF D. Post Awar	d Confere	25 Feb 2019 ence (PAC) Br		Darnell Griffin  Material	3. su	BTITLE	25 F€		9
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004	2. TITLE OF D.  Post Awar  (Data Acquisit	d Confere	25 Feb 2019 ence (PAC) Br		Darnell Griffin  Material	3. SU		25 F€		9
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY	2. TITLE OF D.  Post Awar  (Data Acquisit	d Confere	25 Feb 2019 ence (PAC) Br	REFER	Darnell Griffin  Material	3. su	BTITLE	25 Fe		9
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.	2. TITLE OF D.  Post Awar  (Data Acquisit)	d Confere	25 Feb 2019 ence (PAC) Br 5. CONTRACT	REFER	Darnell Griffin  Material  ENCE  ction C.4.1	3. su	BTITLE  6. REQUIRING OFFIC	25 Fe		9
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY	2. TITLE OF D.  Post Awar  (Data Acquisit	d Confere	25 Feb 2019 ence (PAC) Br 5. CONTRACT	REFER	Material  ENCE ction C.4.1  DATE OF FIRST	3. su	BTITLE  6. REQUIRING OFFIC	25 Fe		9
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250	2. TITLE OF D. Post Awar  (Data Acquisit )	ion  10 FREQU	25 Feb 2019  ence (PAC) Br  5. CONTRACT  ENCY  time and	REFER	Material  ENCE  ction C.4.1  DATE OF FIRST	3. su	BTITLE  6. REQUIRING OFFICE  See Sect	25 Fe		9
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250	2. TITLE OF D. Post Awar  (Data Acquisit )  9. DIST STATEMENT	ion  10 FREQU	25 Feb 2019  ence (PAC) Br  5. CONTRACT  ENCY  time and	REFER	Material  ENCE ction C.4.1  DATE OF FIRST	3. su	BTITLE  6. REQUIRING OFFICE  See Sect	25 Fe		
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ	2. TITLE OF D. Post Awar  (Data Acquisit )  9. DIST STATEMENT REQUIRED	ion  10 FREQU  One t	25 Feb 2019  ence (PAC) Br  5. CONTRACT  ENCY  time and visions	REFER See Se	Material Material CENCE Ction C.4.1 DATE OF FIRST CSSION See Block 16		BTITLE  6. REQUIRING OFFICE See Sect  14. DISTRIBUTION	25 Fe	ab 201:	IES
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ NO  8. APP CODE	2. TITLE OF D. Post Awar  (Data Acquisit )  9. DIST STATEMENT	10 FREQU	25 Feb 2019  ence (PAC) Br  5. CONTRACT  EENCY  time and visions  F DATE	REFERSE See Se 12. I SUBMI	Material  Material  MATE OF FIRST  SSION  See Block 16  DATE OF SUBSEQUENT		BTITLE  6. REQUIRING OFFICE  See Sect	25 Fe	eb 201:	
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ NO	2. TITLE OF D. Post Awar  (Data Acquisit )  9. DIST STATEMENT REQUIRED	10 FREQU	25 Feb 2019  ence (PAC) Br  5. CONTRACT  EENCY  time and visions  F DATE	REFERSE See Se 12. I SUBMI	Material Mat		BTITLE  6. REQUIRING OFFICE See Sect  14. DISTRIBUTION	25 Fe	ab 201:	IES nal
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ NO  8. APP CODE	See Section Companies of the companies o				Material  Material  MATE OF FIRST  SSION  See Block 16  DATE OF SUBSEQUENT		BTITLE  6. REQUIRING OFFICE See Sect  14. DISTRIBUTION	25 Fe	eb 201:	IES
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ NO  8. APP CODE N/A	2. TITLE OF D. Post Awar  (Data Acquisit )  9. DIST STATEMENT REQUIRED  See Block 16	10 FREQUE One tree  11. AS C	25 Feb 2019  ence (PAC) Br  5. CONTRACT  time and visions  of DATE  Block 16	See See See 12. I SUBMI	Material  Materi	r	BTITLE  6. REQUIRING OFFICE See Sect  14. DISTRIBUTION  a. ADDRESSEE	25 Fe	ab 201:	IES nal
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ NO  8. APP CODE N/A  16. REMARKS The briefing	2. TITLE OF D. Post Awar  (Data Acquisit )  9. DIST STATEMENT REQUIRED  See Block 16	10 FREQUE One tree  11. AS Cooker include	25 Feb 2019  ence (PAC) Br  5. CONTRACT  time and visions  F DATE  Block 16	See See See 12. I SUBMI	Material Mat	<b>r</b>	BTITLE  6. REQUIRING OFFICE See Sect  14. DISTRIBUTION  a. ADDRESSEE	25 Fe	ab 201:	IES nal
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ NO  8. APP CODE N/A  16. REMARKS The briefing specific wor	2. TITLE OF D. Post Awar  (Data Acquisit )  9. DIST STATEMENT REQUIRED  See Block 16  package shall k planned to b	10 FREQUE One t ret  11. AS C See I	25 Feb 2019  ence (PAC) Br  5. CONTRACT  time and visions  OF DATE  Block 16  technical det med during the	REFER See See 12. I SUBMI	Material  Material  MATE OF FIRST  SSION  See Block 16  DATE OF SUBSEQUENT BMISSION  See Block 16  Associated with ttracted period. T	<b>r</b>	BTITLE  6. REQUIRING OFFICE See Sect  14. DISTRIBUTION  a. ADDRESSEE	25 Fe	ab 201:	IES nal
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ NO  8. APP CODE N/A  16. REMARKS The briefing specific wor methodology	2. TITLE OF D. Post Awar  (Data Acquisit )  9. DIST STATEMENT REQUIRED  See Block 16  package shall k planned to hand approach	10 FREQUE One tree  11. AS C See I	25 Feb 2019  ence (PAC) Br  5. CONTRACT  time and visions  F DATE  Block 16  technical det med during tid to conduct	REFERSE See See See See See See See See See S	Material  Material  MATERIAN  CATE OF FIRST  ESSION  See Block 16  DATE OF SUBSEQUENT BMISSION  See Block 16  Associated with titracted period. Telephase shall be	r he	BTITLE  6. REQUIRING OFFICE See Sect  14. DISTRIBUTION  a. ADDRESSEE	25 Fe	ab 201:	IES nal
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ NO  8. APP CODE N/A  16. REMARKS The briefing specific wor methodology presented. T slides descr	2. TITLE OF D. Post Awar  (Data Acquisit )  9. DIST STATEMENT REQUIRED  See Block 16  package shall k planned to hand approach ehe presentation ibing the level	10 FREQUE One tree  11. AS Conclude include on performance in shall be for inno	25 Feb 2019  ence (PAC) Br  5. CONTRACT  time and visions  F DATE  Block 16  technical det med during tid to conduct e in Contract vativeness, in the contract vativeness, in the contract vativeness, in the contract vativeness, in the contract vativeness, in the contract vativeness, in the contract vativeness, in the contract vativeness, in the contract vativeness, in the contract vativeness, in the contract vativeness, in the contract vativeness, in the contract vativeness, in the contract vativeness, in the contract vativeness.	REFERSE See See 12. I SUBMI	Material  Material  MATE OF FIRST  SSION  See Block 16  MATE OF SUBSEQUENT BMISSION  See Block 16  Associated with titracted period. To phase shall be ormat and include yel of modularity	he he	BTITLE  6. REQUIRING OFFICE See Sect  14. DISTRIBUTION  a. ADDRESSEE	25 Fe	ab 201:	IES nal
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ NO  8. APP CODE N/A  16. REMARKS The briefing specific wor methodology presented. T slides descr and ability	Post Awar  (Data Acquisit )  9. DIST STATEMENT REQUIRED  See Block 16  package shall k planned to hand approach either presentation being the level to accept change	include on shall be of inno	25 Feb 2019  Ence (PAC) Br  5. CONTRACT  time and visions  F DATE  Block 16  technical det med during the did to conduct e in Contract vativeness, to oads and composed and co	REFERS See See See 12. I SUBMIT  13. I SUBMIT  tails he con this cotor f the leeponent	Material  Material  MATE OF FIRST  SSION  See Block 16  MATE OF SUBSEQUENT  BMISSION  See Block 16  Material  MATE OF SUBSEQUENT  MATERIAL SECTION  AND ARE OF SUBSEQUENT  MATERIAL SECTION  MAT	he che	BTITLE  6. REQUIRING OFFICE See Sect  14. DISTRIBUTION  a. ADDRESSEE	25 Fe	ab 201:	IES nal
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ NO  8. APP CODE N/A  16. REMARKS The briefing specific wor methodology presented. T slides descrand ability planned appr	Post Awar  (Data Acquisit )  9. DIST STATEMENT REQUIRED  See Block 16  package shall k planned to hand approach ehe presentation ibing the level to accept cham, oach and usage	include on performanciations of open open of open open of open open of open open open open open open open open	25 Feb 2019  ence (PAC) Br  5. CONTRACT  time and visions  F DATE  Block 16  technical det med during tid to conduct e in Contrac vativeness, to oads and comparchitectures	REFERS See See See 12. I SUBMI	Material  Material  MATE OF FIRST  SSION  See Block 16  DATE OF SUBSEQUENT BMISSION  See Block 16  associated with titracted period. To phase shall be ormat and include wel of modularity so over time, and interfaces in the	he he y	BTITLE  6. REQUIRING OFFICE See Sect  14. DISTRIBUTION  a. ADDRESSEE	25 Fe	ab 201:	IES nal
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ NO  8. APP CODE N/A  16. REMARKS The briefing specific wor methodology presented. T slides descr and ability planned appr proposed te	2. TITLE OF D. Post Awar  (Data Acquisit )  9. DIST STATEMENT REQUIRED  See Block 16  package shall k planned to hand approach ehe presentation ibing the level to accept changoach and usage chnology demons	One to revisioned in shall be of inno gang payl of open extrator pictures.	25 Feb 2019  Ence (PAC) Br  5. CONTRACT  Time and visions  F DATE  Block 16  technical det med during the document of the conduct of the cond	REFERSE See See 12. I SUBMIT SU SUBMIT SU SUBMIT SU SUBMIT SU SUBMIT SU SUBMIT SU SUBMIT SU SUBMIT SU SUBMIT SU SUBMIT SU SUBMIT	Material  Material  MATERIA OF FIRST  SSION  See Block 16  DATE OF SUBSEQUENT BMISSION  SEE BLOCK 16  DATE OF S	he the the	BTITLE  6. REQUIRING OFFICE See Sect  14. DISTRIBUTION  a. ADDRESSEE	25 Fe	ab 201:	IES nal
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ NO  8. APP CODE N/A  16. REMARKS The briefing specific wor methodology presented. T slides descr and ability planned appr proposed te the performe spectrum sen	Post Awar  (Data Acquisit )  9. DIST STATEMENT REQUIRED  See Block 16  package shall k planned to hand approach enhe presentation; ibing the level to accept changoach and usage chnology demons r is addressin sing and sensing and sensing and sensing and sensing the level to accept changoach and usage chnology demons r is addressing and sensing and sensing and sensing and sensing the level to accept changoach and usage chnology demons r is addressing and sensing and sensing and sensing and sensing the level to accept the level the level to accept the level the l	include operations of open contrator pil grange	25 Feb 2019  Ence (PAC) Br  5. CONTRACT  Time and visions  F DATE  Block 16  technical det med during the did to conduct to in Contract vativeness, to add and comparchitecture. Shallabling capabits, enhanced to the contract vativeness of the contract vativeness.	REFERSE See See 12. I SUBMI	Material  Material  MATE OF FIRST  SSION  See Block 16  MATE OF SUBSEQUENT  EMISSION  See Block 16  MATE OF MATE OF SUBSEQUENT  EMISSION  See Block 16  Massociated with totacted period. To phase shall be ormat and include vel of modularity so over time, and interfaces in the cribe to what extends of improved broadcation and	he the yy the ent ad	BTITLE  6. REQUIRING OFFICE See Sect  14. DISTRIBUTION  a. ADDRESSEE	25 Fe	ab 201:	IES nal
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ NO  8. APP CODE N/A  16. REMARKS The briefing specific wor methodology presented. T slides descr and ability planned appr proposed tethe performe spectrum sen integrated b	Post Awar  (Data Acquisit )  9. DIST STATEMENT REQUIRED  See Block 16  package shall k planned to hand approach ehe presentation ribing the level to accept cham oach and usage chnology demons r is addressin sing and sensin attle management	include to perform shall be not of open strator play the end of range and range at system.	25 Feb 2019  ence (PAC) Br  5. CONTRACT  time and visions  OF DATE  Block 16  technical det med during the doconduct in Contract vativeness, to oads and comparchitectures latform. Shall abling capabits, enhanced of, providing	REFERS See See See 12. I SUBMI  13. I SUBMI  tails he conthis cotor for the leeponents and li describe communal letha.	Material  Material  MATE OF FIRST  SSION  See Block 16  DATE OF SUBSEQUENT BMISSION  See Block 16  DATE OF SUBSEQUENT EMISSION  SEE BLOCK 16  DATE OF SUBS	he he y the ent ad	BTITLE  6. REQUIRING OFFICE See Sect  14. DISTRIBUTION  a. ADDRESSEE	25 Fe	ab 201:	IES nal
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ NO  8. APP CODE N/A  16. REMARKS The briefing specific wor methodology presented. T slides descr and ability planned appr proposed tethe performe spectrum sen integrated b indirect fir	Post Awar  (Data Acquisit )  9. DIST STATEMENT REQUIRED  See Block 16  package shall k planned to hand approach ehe presentation bing the level to accept changoach and usage chnology demons r is addressin sing and sensin attle managemeres, and the util	include on performance of incompany of open of incompany of open of incompany of open of incompany of open of incompany of open of incompany of open of incompany of open of incompany of open of incompany of open of incompany of open of incompany of open of incompany of open of incompany of	ence (PAC) Br  5. CONTRACT  ime and visions  F DATE  Block 16  technical det med during tid to conduct e in Contrac vativeness, toads and comparchitectures latform. Shallabling capabi s, enhanced o, providing and integrat	REFERSE See See 12. I SUBMIT SU 13. I SU 14. I SU 15. I S	Material  Material  MATE OF FIRST  SSION  See Block 16  DATE OF SUBSEQUENT BMISSION  See Block 16  DATE OF SUBSEQUENT EMISSION  SEE BLOCK 16  DATE OF SUBS	he he y the ent ad	BTITLE  6. REQUIRING OFFICE See Sect  14. DISTRIBUTION  a. ADDRESSEE	25 Fe	ab 201:	IES nal
G. PREPARED Jeff Bradel  1. DATA ITEM NO. A004  4. AUTHORITY Document No.  7. DD 250 REQ NO  8. APP CODE N/A  16. REMARKS The briefing specific wor methodology presented. T slides descr and ability planned appr proposed tethe performe spectrum sen integrated b indirect fir and manned/u	Post Awar  (Data Acquisit )  9. DIST STATEMENT REQUIRED  See Block 16  package shall k planned to land approach ehe presentation bibing the level to accept chang oach and usage chnology demons r is addressin sing and sensir attle managemer es, and the uti nmanned teaming	One to reverse include to perform the shall be not perform the state of the state o	25 Feb 2019  Ence (PAC) Br  5. CONTRACT  Time and visions  F DATE  Block 16  technical det med during tid to conduct e in Contrac vativeness, to oads and comparchitectures latform. Shalabling capabis, enhanced c, providing and integrated in the capability of the contraction of t	REFERSE See See 12. I SUBMI	Material  Material  MATE OF FIRST  SSION  See Block 16  MATE OF SUBSEQUENT  BMISSION  See Block 16  MATE OF OF SUBSEQUENT  BMISSION  See Block 16  MATE OF SUBSEQUENT  BMISSION  See Block 16  MATE OF SUBSEQUENT  BMISSION  See Block 16  MATE OF SUBSEQUENT  BMISSION  See Block 16  MATE OF SUBSEQUENT  BMISSION  See Block 16  MATERIAL SION  See Block 16  MATERIAL SION  AUTORIAL SION	he the the ad	BTITLE  6. REQUIRING OFFICE See Sect  14. DISTRIBUTION  a. ADDRESSEE	25 Fe	ab 201:	IES nal

Jeff Bradel	25 Feb 2019	Darnell Griffin		25 Fe	b 2019	,
G. PREPARED BY	H. DATE	I. APPROVED BY		J. DA		
Block 13: Presented version of br provided no later than 3 days afte	,	•				
Block 12: Due 3 calendar days prio	r to scheduled mee	ting.				
Block 11: Contract/delivery order	award.					
Block 9: Distribution Statement D. of Defense and U.S. DoD contractor Use) (2/25/2019). Other request for Code 33, Office of Naval Research. to CDRL A004 only.	s only (Administra or this document sh	tive or Operational nall be referred to	15. TOTAL			
full system weight and cost throug traceability matrix shall be devel technology demonstrator's capabilit (provided as GFI) and the expected summary and Attribute matrix shall with updates provided at every procexpressing anticipated spend rates expected in the closed session as schedule of events shall be provided milestones and decision points. At issues/concerns shall be provided a PAC meeting date will take place waward.	oped to compare the ies to the notion concept's performable updated through the pramer review. A firshall also be proved as details of ed showing the magnable of program riand updated through	ne expected nal ARV Attributes ance. The weight nout the program nancial plan vided and will be f the program. A jor upcoming usks and nout the project. The				

1. DATA ITEM NO. A005	In Pro		ew (IPR) Brie	efing Material	3. SUE	3TITLE		
	Data Acquisitio	on	5. CONTRACT	REFERENCE		6. REQUIRING OF	FICE	
Document No.)			S	See Section C.4.3		See Se	ction F	
	9. DIST STATEMENT REQUIRED	10 FREQUE	ency enterly	12. DATE OF FIRST SUBMISSION  See Block 16		14. DISTRIBUTION	1	
			_	Bee Block 10	•		b.	COPIES
8. APP CODE	See Block 16	11. AS OF	F DATE lock 16	13. DATE OF SUBSEQUENT SUBMISSION  See Block 16	г	a. ADDRESSEE	Draft	Final
				See Block 10				Repro
16. REMARKS						See Enclosure #1		
personnel avadays after the Major reviews review. The br with the speci of the remaini format and inc possible: the to accept charachitectures extent the per improved broad and integrated indirect fires manned/unmanne	dilabilities but kickoff meet such as the PD tiefing package fic work compl. In planned worklude an overvictude an overvictude and interface former is additionally and spectrum sens to battle managers, the utilizated teaming to experience of the property	t shall ta ing and qn R and CDF shall ind eted during k. The pre ew of as r and compose s in the pressing the ing and some ing and some ing and some ing and some	ake place apparaterly them are the load techning the project esentation shamp of the factor of the level onents over the level esents  negotiated based on key proximately 90 calendar reafter until contract peafter until contract the place of a quarterly cal details associated to date and an over hall be in Contractor collowing items as of modularity and abilitime, planned usage of mology demonstrator; thing capabilities of es, enhanced communicating lethality for direct funmanned systems and crew risk; updates codated traceability ma	end.  / d rview  ity open che  iion and d on the				

capabiliti on surrog	_	l ARV Att	ributes (pro installed on		ıpdate				
1) 2) 3) 4) 5) 6) 7) 8) 9) 10) 11) 12) 13) 14) 15)  Block 9: Defense a (2/25/2019	work completed (i Work planned for Contract tasks no Significant accom Problems or delay Corrective action Schedule updates Other program or Risk Management S Configuration Man IMS review Schedule Risk Ass Cost Status Report Status Report for Project Metric State Distribution State and U.S. DoD contr. ). Other request	nclusive upcoming t complet plishment s s personnel tatus (Sa nagement sting (CSF om each futatus ment D. actors on for this	summarize the of meeting a quarter ed s changes fety include (SRA) with most unctional leading (Administ document sh	e following: ction items)  dd) recent cost estimates	Jse) e 33,	15. TOTAL			
Block 11:	Contract/deliver	y order a	ward.						
Block 12:	Due 3 calendar da	ys prior	to scheduled	d meeting.					
	rresented version			ns revisions, must be eeting.					
1. DATA ITEM NO.	2. TITLE OF D	ATA ITEM			3. SUE	BTITLE	<u> </u>		
A006	Preliminary	7 Design R	eview (PDR)	Briefing Material					
4. AUTHORIT	  Y (Data Acquisiti	on	5. CONTRACT	REFERENCE		6. REQUIRING OF	FICE		
Document N	(o.)			See Section C.4.4		See Se	ection F		
7. DD 250 I	REQ 9. DIST	10 FREQU		12. DATE OF FIRST					
270	STATEMENT REQUIRED	One t	ime and	SUBMISSION		14. DISTRIBUTIO	N		
NO		rev	risions	See Block 16			b.	COPI	ES
B. APP CODE	See Block 16	11. AS O		13. DATE OF SUBSEQUEN SUBMISSION	Т	a. ADDRESSEE	Draft	F	inal
N/A		See E	lock 16	See Block 16				Reg	Repr
16. REMARKS	3					See Enclosure #1			
				shall be determined at e of one of the quarter					
IPR meetin	gs.		_	_	_				
the PDR br	LS IISLEU III AUUJ								
		hall be i	n Contractor	is data item. In addit: format and show an					
platform,	ing of the goverr	hall be i ment's de	n Contractor sired attrik	format and show an outes for the developed					
platform,	ing of the goverr provide an update discuss long lead	hall be inment's de on the e item mate	n Contractor sired attrik expected tec erial procus	format and show an outes for the developed hnical performance of trement, provide an					
platform, assessment information	ing of the govern provide an update discuss long lead of programmatic 1 n on the proposed	hall be inment's de on the exists, and Technolog	n Contractor sired attrik expected tec erial procus d provide pro gy Demonstra	format and show an outes for the developed hnical performance of trement, provide an	che				
platform, assessment information	ing of the goverr provide an update discuss long lead of programmatic 1	hall be inment's de on the exists, and Technolog	n Contractor sired attrik expected tec erial procus d provide pro gy Demonstra	format and show an outes for the developed hnical performance of trement, provide an eliminary design	che				
platform, assessment information and balli Block 9: D	ing of the govern provide an update discuss long lead of programmatic in n on the proposed stic coupons (if j	hall be inment's de on the citem materisks, and Technologorovided)	n Contractor sired attrik expected tec erial procus d provide pro gy Demonstrat  Oistribution	format and show an outes for the developed hnical performance of trement, provide an eliminary design	lls,				

Use) (2/25/2019). Other request for Code 33, Office of Naval Research. T CDRL A006 only.  Block 11: Contract/delivery order a Block 12: Due 7 calendar days prior Block 13: Presented version of brief provided no later than 3 days after	his Distribution ward.  to scheduled meet:	Statement applies to ing.	15. TOTAL		
G. PREPARED BY Jeff Bradel	<b>H. DATE</b> 25 Feb 2019	I. APPROVED BY Darnell Griffin		J. DATI 25 Feb	

1. DATA	2. TITLE OF D	ATA ITEM			3.	SUBTITLE			
A007	Critical	Design Re	eview (CDR) B	riefing Material					
	(Data Acquisiti	on	5. CONTRACT	REFERENCE		6. REQUIRING OFFIC	Œ		
Document No.)			:	See Section C.4.5		See Sect	ion F		
7. DD 250 REQ	9. DIST STATEMENT	10 FREQU	ENCY	12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION			
NO	REQUIRED		time and visions	See Block 16			b.	COPI	ES
8. APP CODE	See Block 16	11. AS C	F DATE	13. DATE OF SUBSEQUENT SUBMISSION	T	a. ADDRESSEE	Draft	F	'inal
N/A		See I	Block 16	See Block 16			Diaic	Reg	Repr
16. REMARKS						See Enclosure #1			
PDR meeting a quarterly IPR technology derin A005 are a material shall provided in to be built, proposed capai Demonstrator sufficient te of the capabi Block 9: Dist Department of Operational U referred to C Statement app Block 11: Co Block 12: Due Block 13: Pre	and based on timectings. The monstrator and pplicable to the label of the provide and provide debuild, and intebility that will and/or blast/bechnical detail lity into the ribution Statem Defense and Use) (2/25/2019) ode 33, Office lies to CDRL AC ntract/delivery and contract/delivery and contract design and contract/delivery and contract/delivery and contract/delivery and contract design and contract/delivery and contract design and contract/delivery and contract design and contra	ming can CDR shall blast/bal his data: ctor form dedetailed ctailed in egration; l not be allistic h to faci.  Ment D. I J J J J J J J J J J J J J J J J J J J	be held in p. 1 occur prio locur prio listic hull litem. In addiat, build upod design information on phases of the provided on hulls, the colitate an anaproposed of the proposed of the propo	the project. For any the Technology ontractor shall include alysis of the integratidesign.  authorized to only (Administrative or this document shall be nis Distribution  meeting.  s revisions, must be	d g es ion	15. TOTAL			
G. PREPARED B	Y		H. DATE	I. APPROVED BY Darnell Griffin			J. DAT		
			25 Feb 2019	2011011 0111111					
1. DATA ITEM NO.	2. TITLE OF D	ATA ITEM			3.	SUBTITLE	•		
A008	Live Fire Test	t Readine	ss Review (TF	RR) Briefing		Blast Hull and Bal	listic	Coupo	ns
4. AUTHORITY Document No.)	Data Acquisiti	on	5. CONTRACT	REFERENCE		6. REQUIRING OFFIC	CE		
			See Sect:	ion C.4.7, C.4.18, C.4.	.19	See Sect	ion F		
7. DD 250 REQ	9. DIST STATEMENT REQUIRED	One t	ime and	12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION			
NO		rev	risions	See Block 16			b.	COPI	ES
8. APP CODE	See Block 16	11. AS O		13. DATE OF SUBSEQUENT SUBMISSION	Г	a. ADDRESSEE	Draft	F	inal
N/A		see B	Block 16	See Block 16				Reg	Repr
16. REMARKS						See Enclosure #1			
The Test Read	iness Review (T	RR) meeti	ng shall be	held no later than 30					

Briefing shal operation of assessment. T risks associa technology de	the materiel to he briefing sho ted with perfor monstrator cap	ctor form be deli buld addr ming bal bability	at and addre vered, and in ess attribute listic/blast deviations fr	ess the clude competer compete	ne final design an e a safety and ri pliance and any	sk				
of Defense as Use) (2/25/20	nd U.S. DoD con 19). Other rec ce of Naval Res	tractors quest for	only (Admini this documen	strat t sha	orized to Departme live or Operational all be referred to Statement applies	1				
Block 11: Co	ntract/delivery	order a	ward.							
Block 13: Pre	e 7 calendar day esented version ater than 3 day	of bries	f, if contains	s rev	isions, must be		15. TOTAL			
G. PREPARED B	Y		H. DATE		I. APPROVED BY			J. DAT		
Jeff Bradel			25 Feb 2019		Darnell Griffin			25 Feb	2019	
1. DATA ITEM NO. A009  4. AUTHORITY Document No.)	(Data Acquisiti	Test Read	diness Review  5. CONTRACT	REFE	RENCE	3.	Contractor TD  6. REQUIRING OFFICE	CE	g	
7. DD 250 REQ	9. DIST	10 FREQ			DATE OF FIRST		See Sect	ion F		
22 200 142	STATEMENT REQUIRED		time and		ISSION		14. DISTRIBUTION			
NO	REQUIRED		evisions		See Block 16			b.	COPI	ES
8. APP CODE	See Block 16	11. AS	OF DATE	13.	DATE OF SUBSEQUENT	т	a. ADDRESSEE		F-F	inal
N/A		See	Block 16	st	JBMISSION			Draft		
16. REMARKS					See Block 16		See Enclosure #1		Reg	Repr
later than 30 shall be in C occur and any test procedure Procedures foo defined. The confirm safe subsystems to capabilities,  Block 9: Dist of Defense as Use) (2/25/20 Code 33, Offit to CDRL A009  Block 11: Co Block 12: Due	days prior to ontractor forms planned tuning es, assessment r Government wi Contractor shavehicle operati include, but r battle managem ribution Statem and U.S. DoD con 19). Other recof Naval Resonly.  ntract/delivery 7 calendar day seented version ater than 3 day	contract and a g and bre metrics, thressing all inclusion and ot limit ment system. The contractors quest for search. The contractors quest for search of brief of brief of brief of brief and system.	tor acceptance ddress the teak in operat and test school of the valid de acceptance the operability ed to: weapon em, and organ Distribution only (Administhis documenthis Distribution of this documenthis Distribution of the contains to scheduled f, if contains	e tes sting ions. edule lation testy of s sy ic un author strat tt sha tion	g events that will Shall describe 2.  In testing shall be planning to the major vehicle ystems, off-road manned systems.  Drized to Departme ive or Operationall be referred to Statement applies ing.  isions, must be	e ent	15. TOTAL	J. DAT		
Jeff Bradel	1		25 Feb 2019		Darnell Griffin			25 Feb		
1. DATA	2. TITLE OF D	ATA ITEM				3.	SUBTITLE			
ITEM NO.			eptance Test	Plan			Contractor	Testina		
A010			_							
4. AUTHORITY Document No.)	(Data Acquisiti	on	5. CONTRACT		RENCE ection C.4.9		6. REQUIRING OFFICE See Sect			
7. DD 250 REQ	9. DIST STATEMENT	10 FREQ	UENCY		DATE OF FIRST					
	<u>-</u>	One	time and				14. DISTRIBUTION			

8. APP CODE	REQUIRED	rev	isions/		See Block 16			b.	COPI	ES
8. APP CODE		11. AS C	F DATE		ATE OF SUBSEQUENT	a. A	DDRESSEE		Fi	inal
N/A	See Block 16	See I	Block 16	SUE	MISSION See Block 16			Draft	Reg	Rep
.6. REMARKS					See Block 10	See E	nclosure #1		neg	пер
	y Demonstrator	(TD) Acce	eptance Test	Plan s	hall describe the	-				
	performed, the plan shall be									
sufficient le	evel of detail t	o describ	oe the number	r of te						
miles driven	during this acc	ceptance 1	est period.							
					ized to Departmer ve or Operational					
Jse) (2/25/20	19). Other red	quest for	this docume	nt shal	l be referred to					
code 33, Offi to CDRL A010		searcn. Tr	is Distribi	ution S	tatement applies					
Block 11: Co	ontract/delivery	z order au	vard.							
					60					
	aft version of Test Readines									
Block 13. Fin	al version of t	est plan	shall be pro	ovided	7 calendar					
	Test Readines					15. т	OTAL			
G. PREPARED E	BY		H. DATE	1:	I. APPROVED BY			J. DATI	E	<u> </u>
Jeff Bradel			25 Feb 2019	1	Darnell Griffin			25 Feb	2019	
L. DATA	2. TITLE OF D	ATA ITEM				3. SUBTIT	LE	<u> </u>		
ITEM NO.	Vehicle Test	Readiness	Review (TRI	R) Brie	fing Material		Government I	'estina		
A011			neview (iii	X) DIIC	ing naccitat		GOVETIMENT I	cocing		
4. AUTHORITY Document No	(Data Acquisiti )	on	5. CONTRACT	referi	ENCE	6. RE	QUIRING OFFI	CE		
,	,			See Sec	cion C.4.12		See Sect	ion F		
7. DD 250 REQ	9. DIST STATEMENT	10 FREQU	ENCY	12. D	ATE OF FIRST SSION	14. D	ISTRIBUTION			
NO	REQUIRED		ime and		See Block 16					
8. APP CODE	See Block 16	11. AS C		12 5	AME OF CURCEOUS			b.	COPI	ES
N/A	See Block 16		Block 16		ATE OF SUBSEQUENT MISSION	a. A	DDRESSEE	Draft	Fi	inal
14/ 21		500 1			See Block 16				Reg	Rep
16. REMARKS						See E	nclosure #1			
The Test Dead		TRR) meeti	.ng shall be	held n	o later than 30					
			veloped Tech	hnology	Demonstrator (TI	)				
days prior to platform. Bri	the delivery efing shall de	of the de escribe th	ne results o	f the p	Demonstrator (TI					
days prior to platform. Bri testing and t Briefing shal	the delivery efing shall de the ability of t l also address	of the deescribe the platforthe test	ne results o orm to meet assets' read	f the p the ag diness	rior acceptance reed upon metrics for the planned					
days prior to platform. Bri testing and t Briefing shal testing sched	the delivery efing shall de the ability of t	of the describe the platforthe test latform should be described as the test latform should be described by the test latform should be described by the described between the test latform should be described by the described by t	ne results o orm to meet assets' read hipping sched	f the p the ag diness dules,	rior acceptance reed upon metrics for the planned details on					
days prior to platform. Bri testing and t Briefing shal testing sched contractor p government te	o the delivery efing shall de the ability of the class address bule, planned planned planned provided support est event, and a	of the describe the platfor the test latform she personnerisk and	ne results of prime to meet assets' readipping scheet, spares, safety assess	f the p the ag diness dules, and equ ssment	rior acceptance reed upon metrics for the planned details on ipment for of the TD platfor	m.				
days prior to platform. Bri testing and t Briefing shal testing sched contractor p government te The risk and events associ	the delivery efing shall de the ability of t. 1 also address dule, planned planovided support est event, and it safety assessmentated with devia	of the describe the platform shatform should be the	ne results of the res	f the p the ag diness dules, and equ ssment ony risk	rior acceptance reed upon metrics for the planned details on ipment for	m.				
days prior to platform. Bri testing and t Briefing shal testing sched contractor p government te The risk and events associ	the delivery efing shall de the ability of t. 1 also address dule, planned planovided support est event, and it safety assessmentated with devia	of the describe the platform shatform should be the	ne results of the res	f the p the ag diness dules, and equ ssment ony risk	rior acceptance reed upon metrics for the planned details on ipment for the TD platfors for specific te	m.				
days prior to platform. Bri testing and t Briefing shal testing sched contractor p government te The risk and events associ the contractor Block 9: Dist	the delivery effing shall de the ability of the ability of the ability of the the ability of the the the the the the the the the the	of the describe the platfithe platfithe test atform shaper shaper and ent should the personner between the personner between the personner between the personner between the platfithe pla	ne results o prm to meet assets' read nipping schedal, spares, safety asses i include and ween the to Distribution	f the p the ag diness dules, and equ ssment on risk echnologia	rior acceptance reed upon metrics for the planned details on ipment for of the TD platfor s for specific te gy demonstrator a  ized to Departmen	m. sst nd				
days prior to platform. Bri testing and t Briefing shall testing sched contractor p government te The risk and events associ the contractor Block 9: Dist of Defense a Use) (2/25/20	the delivery efing shall de the ability of t. 1 also address dule, planned planovided support event, and is safety assessmented with devia or's design.  Tribution Statem and U.S. DoD cor 19). Other rec	of the describe the test the test tatform shot personnerisk and ent should attions between the test tatform to be	ne results o orm to meet assets' readipping schedel, spares, safety asses d include and ween the to Distribution only (Admini- this docume	f the p the ag diness dules, and equ ssment on risk echnolo author istrati nt shal	rior acceptance reed upon metrics for the planned details on ipment for of the TD platfors for specific tegy demonstrator a ized to Departmer we or Operational be referred to	m. sst nd				
days prior to platform. Bri testing and t Briefing shal testing sched contractor p government te The risk and events associ the contractor Block 9: Dist of Defense a Use) (2/25/20 Code 33, Offi	the delivery efing shall de the ability of t. l also address tule, planned ple provided support st event, and is safety assessme atted with devia r's design.  Tribution Statem of U.S. DoD cor 119). Other recice of Naval Res	of the describe the test the test tatform shot personnerisk and ent should attions between the test tatform to be	ne results o orm to meet assets' readipping schedel, spares, safety asses d include and ween the to Distribution only (Admini- this docume	f the p the ag diness dules, and equ ssment on risk echnolo author istrati nt shal	rior acceptance reed upon metrics for the planned details on ipment for of the TD platfor s for specific te gy demonstrator a  ized to Departmen we or Operational	m. sst nd				
days prior to platform. Bri testing and the Briefing shall testing sched contractor provented for the risk and events associthe contractor Block 9: Dist of Defense a Use) (2/25/20 Code 33, Offito CDRL A011	the delivery efing shall de the ability of t. l also address tule, planned ple provided support st event, and is safety assessme atted with devia r's design.  Tribution Statem of U.S. DoD cor 119). Other recice of Naval Res	of the describe the platfic the test atform shall a personnerisk and ent should ations between the personnert D. Intractors quest for search. The	ne results o prime to meet assets' reamipping schedul, spares, safety assest include are ween the temperature of the control o	f the p the ag diness dules, and equ ssment on risk echnolo author istrati nt shal	rior acceptance reed upon metrics for the planned details on ipment for of the TD platfors for specific tegy demonstrator a ized to Departmer we or Operational be referred to	m. sst nd				
days prior to platform. Bri testing and the string shall testing sched contractor provers and the risk and events associthe contractor Block 9: Dist of Defense a Use) (2/25/20 Code 33, Offit to CDRL A011 Block 11: Compared to the contractor the contractor the contractor to the cont	the delivery efing shall de the ability of t. l also address dule, planned plorovided support st event, and is safety assessme atted with devia or's design.  Tribution Statem and U.S. DoD cor 19). Other record of Naval Resonly.	of the describe the secribe the platfic the test latform shows and the should attion to be the secretary order at a constant of the secretary order at the secre	ne results o print to meet assets' readipping schedel, spares, safety asses include an aween the tellipping schedel, spares, safety asses include an aween the tellipping spares, safety asses include an aween the tellipping spares, safety asset include an aween the safety spares, spares	f the p the ag diness dules, and equ ssment on ny risk echnolo author istrati nt shal ution S	rior acceptance reed upon metrics for the planned details on ipment for of the TD platfor s for specific te gy demonstrator a  ized to Departmen we or Operational l be referred to tatement applies	m. sst nd				
days prior to platform. Bri testing and the string sched contractor provers and the string sched contractor provers and the contractor to the contractor the contractor block 9: Distof Defense a Use) (2/25/20) Code 33, Offito CDRL A011  Block 11: Company of the string string scheduler string scheduler scheduler string scheduler schedul	the delivery efing shall de the ability of t. l also address tule, planned ple provided support st event, and is safety assessme ated with devia or's design.  Tribution Statem of U.S. DoD cor 19). Other recice of Naval Resonly.	of the describe the escribe the platfic the test latform should actions between the personnerisk and entities and entities and entities and entities and entities and entities and entities are the entitled to the entitle the entitle that the ent	ne results o print to meet assets' readipping schedule, spares, safety asses include an extended to scheduled	f the p the ag diness dules, and equ ssment on ny risk echnolo author istrati nt shal ution S	rior acceptance reed upon metrics for the planned details on ipment for of the TD platfors for specific tegy demonstrator a ized to Department or Operational be referred to tatement applies	m. sst nd	OTAL			
days prior to platform. Bri testing and the string shall testing schedules from the schedules of the contractor of the risk and events associthe contractor of Defense a Use) (2/25/20 Code 33, Offito CDRL A011  Block 11: Company of the contractor	the delivery efing shall de the ability of t. l also address dule, planned plorovided support st event, and is safety assessme atted with devia or's design.  Tribution Statem and U.S. DoD cor 19). Other record of Naval Resonly.	of the describe the scribe the platfic the test latform she personner isk and ent should attions between the personner of prior of brief	ne results o prime to meet assets' reardipping schedult, spares, safety assest include are ween the to Distribution only (Adminithis documents) Distribution only is Distribution only in this documents of the scheduled to scheduled, if contains	f the properties of the agdiness dules, and equipment of the agreement of	rior acceptance reed upon metrics for the planned details on ipment for of the TD platfors for specific tegy demonstrator a ized to Department or Operational be referred to tatement applies	m. st nd	OTAL			
days prior to platform. Bri testing and the string shall testing schedules from the schedules of the contractor of the risk and events associthe contractor of Defense a Use) (2/25/20 Code 33, Offito CDRL A011  Block 11: Company of the contractor	the delivery efing shall de the ability of t. 1 also address tule, planned planted the tevent, and it safety assessment with deviation of the tevent, and it safety assessment with deviation's design.  Tribution Statement U.S. DoD cor. 19). Other recipies of Naval Resonly.  Contract/delivery to a contract/delivery to a contract delivery the terminal of the terminal	of the describe the scribe the platfic the test latform she personner isk and ent should attions between the personner of prior of brief	ne results o prime to meet assets' reardipping schedult, spares, safety assest include are ween the to Distribution only (Adminithis documents) Distribution only is Distribution only in this documents of the scheduled to scheduled, if contains	f the properties of the agdiness dules, and equipment of the agreement of	rior acceptance reed upon metrics for the planned details on ipment for of the TD platfors for specific tegy demonstrator a ized to Department or Operational be referred to tatement applies	m. st nd	OTAL			
days prior to platform. Bri testing and the Briefing shall testing sched contractor provided by the contractor provided by the contractor below the contractor below 9: Dist of Defense a Use) (2/25/20 Code 33, Offit to CDRL A011 Block 11: Combined by the contractor below 12: Due Block 12: Due Block 13: President contractor below 14: Due Block 13: President contractor below 15: Due Block 13: Due Block 14:	the delivery efing shall de the ability of t. 1 also address tule, planned planted the tevent, and it safety assessment with deviation of the tevent, and it safety assessment with deviation's design.  Tribution Statement U.S. DoD cor. 19). Other recipies of Naval Resonly.  Contract/delivery to a contract/delivery to a contract delivery the terminal of the terminal	of the describe the scribe the platfic the test latform she personner isk and ent should attions between the personner of prior of brief	ne results o prime to meet assets' reardipping schedult, spares, safety assest include are ween the to Distribution only (Adminithis documents) Distribution only is Distribution only in this documents of the scheduled to scheduled, if contains	f the properties of the agdiness dules, and equipment of the agreement of	rior acceptance reed upon metrics for the planned details on ipment for of the TD platfors for specific tegy demonstrator a ized to Department or Operational be referred to tatement applies	m. st nd	OTAL			
days prior to platform. Bri testing and the sting and the sting sched contractor provers and the sting sched to the contractor provers and the contractor the contractor the contractor block 9: District of Defense and Use) (2/25/20 Code 33, Offit to CDRL A011 Block 11: Company of the contractor of th	the delivery efing shall de the ability of t. l also address dule, planned planvided support stevent, and is safety assessme atted with devia or's design.  Tribution Statem and U.S. DoD cord 19). Other record sonly.  Ontract/delivery a 7 calendar dages atted version atter than 3 da	of the describe the platfic the test latform shows and ent should ations between the personnerisk and ent should ations between the personners of properties of brief ys after	ne results o print to meet assets' readipping schedel, spares, safety asses include an aween the tead only (Adminithis documents Distribution only (Adminithis documents Distribution) only (Adminithis documents Distribution) only (Adminithis documents Distribution) only (Adminithis documents Distribution) only (Adminithis documents Distribution) only (Adminithis documents Distribution) only (Adminithis documents) only (	f the p the ag diness dules, and equ ssment on my risk echnoloo author istrati nt shal ution S	rior acceptance reed upon metrics for the planned details on ipment for of the TD platfors for specific tegy demonstrator a ized to Department we or Operational 1 be referred to tatement applies	m. st nd	OTAL			
days prior to platform. Bri testing and the Briefing shall testing sched contractor provided by the contractor provided by the contractor before the risk and events associate contractor before the contractor before the contractor before a contractor before the contractor before a contractor before a contractor before the contractor before the contractor before a contractor before the contracto	the delivery efing shall de the ability of t. l also address dule, planned planvided support stevent, and is safety assessme atted with devia or's design.  Tribution Statem and U.S. DoD cord 19). Other record sonly.  Ontract/delivery a 7 calendar dages atted version atter than 3 da	of the describe the secribe the test the test tatform shows the personner should attion to be the test tatform should be the test tatform should be the tatform to be the tatform to be the tatform to be the tatform to be the tatform to be the tatform to tatform to be the tatform to be the tatform to be the tatform to be the tatform to be the tatform to be the tatform to be tatfo	ne results o print to meet assets' readipping schedel, spares, safety asses include an aween the temperature of the second control o	f the p the ag diness dules, and equ ssment on my risk echnoloo author istrati int shal ution S	rior acceptance reed upon metrics for the planned details on ipment for of the TD platfors for specific tegy demonstrator a ized to Department or Operational be referred to tatement applies	m. st nd	OTAL	J. DATI		
days prior to platform. Bri testing and the string and the string shall testing sched contractor provernment te the risk and events associthe contractor block 9: Dist of Defense a Use) (2/25/20 Code 33, Offito CDRL A011 Block 11: Compared to CDRL A011 Block 12: Due Block 13: Preprovided no 1	the delivery efing shall de the ability of t. l also address dule, planned planvided support stevent, and is safety assessme atted with devia or's design.  Tribution Statem and U.S. DoD cord 19). Other record sonly.  Ontract/delivery a 7 calendar dages atted version atter than 3 da	of the describe the secribe the test the test tatform shows the personner should attion to be the test tatform should be the test tatform should be the tatform to be the tatform to be the tatform to be the tatform to be the tatform to be the tatform to tatform to be the tatform to be the tatform to be the tatform to be the tatform to be the tatform to be the tatform to be tatfo	ne results o print to meet assets' readipping schedel, spares, safety asses include an aween the tead only (Adminithis documents Distribution only (Adminithis documents Distribution) only (Adminithis documents Distribution) only (Adminithis documents Distribution) only (Adminithis documents Distribution) only (Adminithis documents Distribution) only (Adminithis documents Distribution) only (Adminithis documents) only (	f the p the ag diness dules, and equ ssment on my risk echnoloo author istrati int shal ution S	rior acceptance reed upon metrics for the planned details on ipment for of the TD platfors for specific tegy demonstrator a ized to Department or Operational be referred to tatement applies sions, must be	m. st nd	OTAL			
days prior to platform. Bri testing and the string and the string shall testing sched contractor provernment te the risk and events associthe contractor block 9: Dist of Defense a Use) (2/25/20 Code 33, Offito CDRL A011 Block 11: Compared to CDRL A011 Block 12: Due Block 13: Preprovided no 1	the delivery efing shall de the ability of t. l also address dule, planned planvided support stevent, and is safety assessme atted with devia or's design.  Tribution Statem and U.S. DoD cord 19). Other record sonly.  Ontract/delivery a 7 calendar dages atted version atter than 3 da	of the describe the escribe the platfic the test tatform she personner isk and ent should ations between the tractors quest for search. The yorder at ys prior of brief ys after	ne results o print to meet assets' readipping schedel, spares, safety asses include an aween the temperature of the second control o	f the p the ag diness dules, and equ ssment on my risk echnoloo author istrati int shal ution S	rior acceptance reed upon metrics for the planned details on ipment for of the TD platfors for specific tegy demonstrator a ized to Department or Operational be referred to tatement applies sions, must be	m. st nd				

Document No.	(Data Acquisiti	on	5. CONTRACT	REFE	RENCE		6. REQUIRING OFFICE	CE		
Document No.,	,		S	ee Se	ction C.4.13		See Sect	ion F		
7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10 FREQUE	ENCY		DATE OF FIRST		14. DISTRIBUTION			
NO		rev	risions		See Block 16			b.	COPI	ES
8. APP CODE	See Block 16	11. AS O			DATE OF SUBSEQUENT UBMISSION	Т	a. ADDRESSEE	Draft	Fi	inal
N/A		See B	Block 16		See Block 16			22420	Reg	Repr
16. REMARKS							See Enclosure #1			Ī
key personned days prior to briefing pack details assoc period of per of the final recommended c to meet the matrix shall concept's cap and the expect Attribute mat presented.  Block 9: Dist of Defense a Use) (2/25/20 Code 33, Offit to CDRL A012  Block 11: Comblete Block 12: Due Block 13: Presented.	I availabilities the end of th age shall be in iated with the formance and an developed platf hanges in the f set test requirem also be provid abilities to th ted concept's p rix shall be pr  cribution Statem nd U.S. DoD con 19). Other req ce of Naval Res only.  ontract/delivery a 3 calendar day	s, but she e contract Contract Contract Specific overview orm shall uture. An identification over the contract of the contract over the contract of the contra	all take place all take place at the place at the place assessment of the provided assessment of the provided assessment of the provided at the provided at the provided at the provided at the provided at the provided at the provided at the provided at the provided at the provided at the provided at the provided at the provided at the provided at the provided at the provided at the place at the provided at the p	ce bet f per	clude technical uring the contract ivities. An overvi g with a n y e platform's abil: final traceabilit impare the expecte (provided as GFI) ght summary and s shall be  prized to Departme ive or Operational ill be referred to Statement applies  ing.  isions, must be	tted tty y ad the tity of the	15. TOTAL			
G. PREPARED E Jeff Bradel	ЗУ		<b>H. DATE</b> 25 Feb 2019		I. APPROVED BY Darnell Griffin			J. DATI 25 Feb		
1. DATA	2. TITLE OF D	ATA ITEM				3. 8	SUBTITLE	I		
A013		Final	Technical Re	port			Unclassi	fied		
4. AUTHORITY	   (Data Acquisiti	on	5. CONTRACT	REFE	RENCE	 	6. REQUIRING OFFICE	CE		
Document No.	)		S							
7. DD 250 REQ	9. DIST			ee se	ction C.4.14		See Sect			
7, 22 200 142	STATEMENT REOUIRED	10 FREQU	ENCY	12.	DATE OF FIRST		See Sect			
NO	STATEMENT REQUIRED	One t		12.	DATE OF FIRST	-		ion F	COPI	ES
		One t	ENCY ime and visions	12. SUBM	DATE OF FIRST ISSION See Block 16 DATE OF SUBSEQUENT	т		b.		ES
NO	REQUIRED	One trev	ENCY ime and visions	12. SUBM	DATE OF FIRST ISSION  See Block 16	T	14. DISTRIBUTION	ion F		
NO 8. APP CODE	REQUIRED	One trev	ENCY ime and visions F DATE	12. SUBM	DATE OF FIRST ISSION See Block 16 DATE OF SUBSEQUENT	т	14. DISTRIBUTION	b.	Fi	nal

report shall cand trades add spectrum sensi integrated bat indirect fires and manned/unm shall describe path forward f during the problem of Defense ar Use) (2/25/201 Code 33, Official to CDRL A013 CBlock 11: Combined Block 12: Inito the end of delivery of A0	describe to what describe to what describe to what describe the key and and sensing the management and the uti- dended to the results of for any system describe to the re- describe to the	t extent enablini ranges, system, lization to exter rom all r changes a tractors uest for earch. T order a of the fie od of pe Technolog	the performs g capabilitie enhanced com providing le and integrat de reach and test events as a result  Distribution only (Adminithis document his Distribution ward.  Anal report stromance and only Demonstrations	er's sof munic thali ion oo reducand po author stratit shattion	ty for direct and f unmanned systems e crew risk. Report or a recomment of lessons learned orized to Departme ive or Operationall be referred to Statement applies on the following of the following t	s rt ded	15. TOTAL				
G. PREPARED BY Jeff Bradel	Y		<pre>H. DATE 25 Feb 2019</pre>		I. APPROVED BY Darnell Griffin			J. DATE	_		
1. DATA	2. TITLE OF D	ስጥል <b>ፐ</b> ጥፑΜ				3	SUBTITLE				
ITEM NO.	2. 11122 01 2		. Technical Re	nort		٥.	Classified	Annov			
A014											
A. AUTHORITY ( Document No.)	Data Acquisitio	on	5. CONTRACT				6. REQUIRING OFFIC	CE			
			S	ee Se	ction C.4.14		See Section F				
7. DD 250 REQ	9. DIST STATEMENT	10 FREQU	JENCY	l	DATE OF FIRST		14. DISTRIBUTION				
NO	REQUIRED		time and visions		See Block 16			h	COPIE	70	
8. APP CODE	See Block 16	11. AS (	OF DATE	13.	DATE OF SUBSEQUEN	т	a. ADDRESSEE	2.		nal	
N/A		See	Block 16	St	JBMISSION See Block 16			Draft Reg Repr			
16. REMARKS							See Enclosure #1		neg	керт	
technical deta include testin	ils associate	d with c	lassified asp and proposed	ects	nd consist of all of the project to ept design. Refer						
	Technical Draw										
and areal dens		yers; sh	all include	obliq	ion, thickness, uity angles for						
located on the		where ea	CII IIIQIVIQUAI	aliiio	r recipe is						
	ssified to the guides. This										
	tract/delivery			-							
	the base peri				oe 6 months prior ld coincide with		15. TOTAL				
Block 13: Upd. performance.	ated final repo	ort is du	e by the end	of tl	ne base period of						
G. PREPARED BY Jeff Bradel	Y		<b>H. DATE</b> 25 Feb 2019		I. APPROVED BY Darnell Griffin			J. DATE 25 Feb		$\dashv$	
1. DATA ITEM NO. A015	2. TITLE OF D		ed Design (CAI	D) Mod	del	3.	SUBTITLE				
	  Data Acquisition	on	5. CONTRACT	REFE	RENCE		6. REQUIRING OFFIC	CE			
Document No.)			S	ee Se	ction C.4.15		See Section F				
7. DD 250 REQ	9. DIST STATEMENT REQUIRED		14. DISTRIBUTION								
ļ				•			•				

			ime and visions		See Block 16			b.	COPI	ES
8. APP CODE	See Block 16	11. AS C			DATE OF SUBSEQUENT BMISSION	a.	ADDRESSEE	Draft	Fi	inal
N/A		See I	Block 16		See Block 16			Drare	Reg	Repr
16. REMARKS	L	1		· I		See	Enclosure #1			
An integrated	3D virtual mod	lel of the	e finalized 2	ARV de:	sign consisting of					
	odels of the va contain accura				omponent and system					
					er of gravity parts. These models					
	of all of the ine, transmissi				de, but not limited					
axles, tires,	seats, door/ha	tches, sw	im drives, a	and sto	owed items (i.e.					
					. All CAD models IL-STD-31000B, dated					
31 October 20	18. The CAD mo	odels are	not intende	ed for,	nor are they					
	use in, the com y format can be				omponent parts.  preferred and STEP					
					effort to ensure					
CAD MODELS at	e error free an	ia ao not	CONTRACTO THE	errerri	ig components.					
of Defense a Use) (2/25/20	nd U.S. DoD con	ntractors quest for	only (Adminithis docume	istrat: nt sha	rized to Department ive or Operational ll be referred to					
to CDRL A015		search. Th	nis Distrib	ution :	Statement applies					
	ontract/delivery									
Block 12: Ini (CDR Briefing		t the mod	el is due wi	ith the	e delivery of A007	15.	TOTAL			
	dated version of performance.	f the mod	el is due by	y the e	end of the					
G. PREPARED E	ЗУ		H. DATE		I. APPROVED BY			J. DATI		
Jeff Bradel			25 Feb 2019		Darnell Griffin			25 Feb	2019	
					Daineil Gillin				2013	
1. DATA	2. TITLE OF D	ATA ITEM				SUBT	ITLE			
ITEM NO.	2. TITLE OF D					SUBT	ITLE			
A016		Tech	nical Drawir	ngs	3.	SUBT	ITLE			
A016 AUTHORITY	(Data Acquisiti	Tech		ngs	3.		ITLE REQUIRING OFFI			
A016	(Data Acquisiti	Tech	nical Drawin	ngs T REFER	3.			CE		
A016 AUTHORITY	(Data Acquisiti)	Tech	nical Drawir  5. CONTRACT	ngs T REFER	RENCE etion C.4.15	6. I	REQUIRING OFFI See Sect	CE		
ITEM NO. A016  4. AUTHORITY Document No.;	(Data Acquisiti)	on  10 FREQU	nical Drawir  5. CONTRACT	ngs T REFER	3. RENCE	6. I	REQUIRING OFFI	CE tion F		ES
A016 4. AUTHORITY Document No.	(Data Acquisiti)  9. DIST STATEMENT	on  10 FREQU	5. CONTRACT	ngs T REFER	RENCE Ottion C.4.15 DATE OF FIRST	14.	REQUIRING OFFI See Sect	CE tion F	COPI	
A016 4. AUTHORITY Document No.; 7. DD 250 REQ	(Data Acquisiti)  9. DIST STATEMENT REQUIRED	on  10 FREQU One t rev	5. CONTRACT	ngs T REFER See Sec 12. I SUBM:	3.  RENCE  ction C.4.15  DATE OF FIRST ISSION  See Block 16	14.	See Sect	CE tion F	COPI	inal
A016 4. AUTHORITY Document No. 7. DD 250 REQ NO 8. APP CODE N/A	(Data Acquisiti)  9. DIST STATEMENT REQUIRED	on  10 FREQU One t rev	5. CONTRACT ENCY time and visions	ngs T REFER See Sec 12. I SUBM:	3.  RENCE  ction C.4.15  DATE OF FIRST ISSION  See Block 16  DATE OF SUBSEQUENT BMISSION	14.	See Sect DISTRIBUTION ADDRESSEE	CE tion F	COPI	inal
A016 4. AUTHORITY Document No., 7. DD 250 REQ NO 8. APP CODE N/A 16. REMARKS Technical Dra	9. DIST STATEMENT REQUIRED See Block 16	Tech  on  10 FREQU  One t rev  11. AS C See F	ENCY  Sime and visions  F DATE  Block 16	T REFER See See 12. I SUBM:	DATE OF FIRST USSION See Block 16 DATE OF SUBSEQUENT EMMISSION See Block 16	14.	See Section See Section See Section Addressee	CE tion F	COPI	inal
A016  4. AUTHORITY Document No.,  7. DD 250 REQ  NO  8. APP CODE  N/A  16. REMARKS  Technical Dra provided. The	9. DIST STATEMENT REQUIRED See Block 16	Tech  on  10 FREQU  One t rev  11. AS C See F	ENCY  ime and visions  F DATE  Block 16	T REFEE See Sec 12. I SUBM: 13. I SU	DATE OF FIRST ISSION See Block 16 DATE OF SUBSEQUENT EMISSION See Block 16	14.	See Sect DISTRIBUTION ADDRESSEE	CE tion F	COPI	inal
A016  4. AUTHORITY Document No.,  7. DD 250 REQ  NO  8. APP CODE  N/A  16. REMARKS  Technical Dra provided. The needed for as transmission,	9. DIST STATEMENT REQUIRED  See Block 16  wings of the fise drawings sheely, which electric power	Tech  on  10 FREQU  One tree  11. AS Created Technology and the consistency and the consistency are generated to the consistency and the consistency are generated to	ENCY  Time and visions  F DATE Block 16  Cechnology Dest of selected, hull, attorn, weapon,	T REFER See See  12. I SUBM:  13. I SU  emonstited mairmor, e axles	DATE OF FIRST ISSION See Block 16 DATE OF SUBSEQUENT BMISSION See Block 16  Tator shall be jor subsystems, as engine, s, tires, seats,	14.	See Sect DISTRIBUTION ADDRESSEE	CE tion F	COPI	inal
A016  4. AUTHORITY Document No.,  7. DD 250 REQ  NO  8. APP CODE  N/A  16. REMARKS  Technical Dra provided. The needed for as transmission, door/hatches, Developmental	9. DIST STATEMENT REQUIRED  See Block 16  wings of the fi se drawings sh sembly, which electric power and swim drive Level, as defi	Tech  On trev  One trev  11. AS O See H  analized Tall consimay incluse generating see All teaned in MI	ENCY  Sime and visions  F DATE  Block 16  Cechnology De st of selected, hull, at on, weapon, weapon, whical draws.	mgs T REFER See Sec 12. I SUBM: 13. I SU emonstricted mairmor, axles wings sB, date	DATE OF FIRST ISSION See Block 16 DATE OF SUBSEQUENT EMISSION See Block 16  rator shall be jor subsystems, as engine, s, tires, seats, should be at the ed 31 October 2018.	14.	See Sect DISTRIBUTION ADDRESSEE	CE tion F	COPI	inal
A016  4. AUTHORITY Document No.,  7. DD 250 REQ  NO  8. APP CODE  N/A  16. REMARKS  Technical Dra provided. The needed for as transmission, door/hatches, Developmental The technical	9. DIST STATEMENT REQUIRED  See Block 16  wings of the fi se drawings sh sembly, which electric power and swim drive Level, as defi drawings are n	One to revenue to the second s	ENCY  cime and visions  F DATE  Block 16  Cechnology De est of selected, hull, as on, weapon, chnical draw LI-STD-310001 led for, nor	mgs T REFEI See Sec 12. I SUBM: 13. I SU emonstricted mairmor, c axles wings: B, date are til	DATE OF FIRST ISSION See Block 16 DATE OF SUBSEQUENT EMISSION See Block 16  rator shall be jor subsystems, as engine, s, tires, seats, should be at the ed 31 October 2018. hey adequate	14.	See Sect DISTRIBUTION ADDRESSEE	CE tion F	COPI	inal
A016  4. AUTHORITY Document No.,  7. DD 250 REQ  NO  8. APP CODE  N/A  16. REMARKS  Technical Draprovided. The needed for as transmission, door/hatches, Developmental The technical for use in, t	9. DIST STATEMENT REQUIRED  See Block 16  wings of the fi se drawings sh sembly, which electric power and swim drive Level, as defi drawings are n he competitive	One tree  10 FREQU  One tree  11. AS Considered Teal consistency includes generating search and in MI to tintence procurements.	ENCY  Sime and visions  F DATE Block 16  Cechnology Dest of selectide, hull, attended, hull, attended, echnical draw. L-STD-310001 ded for, nor lent of composite the composite of the composite	T REFER See Sec  12. I SUBM:  13. I SU  emonst: ted ma; rmor, c axles wings: B, datc are tl onent p	DATE OF FIRST ISSION See Block 16 DATE OF SUBSEQUENT EMISSION See Block 16  Pator shall be jor subsystems, as engine, tires, seats, should be at the ed 31 October 2018. ney adequate parts.	14.	See Sect DISTRIBUTION ADDRESSEE	CE tion F	COPI	inal
A016  4. AUTHORITY Document No.  7. DD 250 REQ  NO  8. APP CODE  N/A  16. REMARKS  Technical Draprovided. The needed for as transmission, door/hatches, Developmental for use in, t  Block 9: Dist	9. DIST STATEMENT REQUIRED  See Block 16  wings of the fi se drawings sh sembly, which electric power and swim drive Level, as defi drawings are n he competitive	Tech  on  10 FREQU  One tree  11. AS Created The second in MI consisters. All technical in the created in the contract of the procurement D. If	ENCY  Sime and visions  F DATE  Block 16  Cechnology De st of selected, hull, at on, weapon, schnical draw L-STD-31000 led for, nor ment of composition of c	mgs T REFER See Sec 12. I SUBM: 13. I SU emonstricted mairmor, a axles wings sign are till onent properties authorized au	DATE OF FIRST USSION See Block 16 DATE OF SUBSEQUENT EMISSION See Block 16  rator shall be jor subsystems, as engine, stres, seats, should be at the ed 31 October 2018. ney adequate parts.  rized to Department	14.	See Sect DISTRIBUTION ADDRESSEE	CE tion F	COPI	inal
A016  4. AUTHORITY Document No.;  7. DD 250 REQ  NO  8. APP CODE  N/A  16. REMARKS  Technical Dra provided. The needed for as transmission, door/hatches, Developmental The technical for use in, t  Block 9: Dist of Defense a Use) (2/25/20	9. DIST STATEMENT REQUIRED  See Block 16  wings of the fi se drawings sh sembly, which electric power and swim drive Level, as defi drawings are n he competitive cribution Statem and U.S. DoD com 19). Other rec	One tree  11. AS C See H  Inalized Tall consimal inclusions in the constitution of the	ENCY  ime and visions  F DATE  Block 16  Cechnology De st of selected, hull, as on, weapon, echnical draw LL-STD-310001 led for, nor lent of component of compone	emonstrated marger wings:  By date are the onent products of the contract of t	DATE OF FIRST ISSION  See Block 16  DATE OF SUBSEQUENT BMISSION See Block 16  rator shall be jor subsystems, as engine, s, tires, seats, should be at the ed 31 October 2018. hey adequate parts.  rized to Department ive or Operational ll be referred to	14.	See Sect DISTRIBUTION ADDRESSEE	CE tion F	COPI	
A016  4. AUTHORITY Document No.;  7. DD 250 REQ  NO  8. APP CODE  N/A  16. REMARKS  Technical Dra provided. The needed for as transmission, door/hatches, Developmental The technical for use in, t  Block 9: Dist of Defense a Use) (2/25/20	9. DIST STATEMENT REQUIRED  See Block 16  wings of the fi se drawings sh sembly, which electric power and swim drive Level, as defi drawings are n he competitive cribution Statem nd U.S. DoD con 19). Other rec ce of Naval Res	One tree  11. AS C See H  Inalized Tall consimal inclusions in the constitution of the	ENCY  ime and visions  F DATE  Block 16  Cechnology De st of selected, hull, as on, weapon, echnical draw LL-STD-310001 led for, nor lent of component of compone	emonstrated marger wings:  By date are the onent products of the contract of t	DATE OF FIRST ISSION See Block 16 DATE OF SUBSEQUENT EMISSION See Block 16  Cator shall be gor subsystems, as engine, s, tires, seats, should be at the ed 31 October 2018. hey adequate parts.  Crized to Department ive or Operational	14.	See Sect DISTRIBUTION ADDRESSEE	CE tion F	COPI	inal
A016  4. AUTHORITY Document No.,  7. DD 250 REQ  NO  8. APP CODE  N/A  16. REMARKS  Technical Dra provided. The needed for as transmission, door/hatches, Developmental The technical for use in, t  Block 9: Dist of Defense a Use) (2/25/20 Code 33, Offit to CDRL A016	9. DIST STATEMENT REQUIRED  See Block 16  wings of the fi se drawings sh sembly, which electric power and swim drive Level, as defi drawings are n he competitive cribution Statem nd U.S. DoD con 19). Other rec ce of Naval Res	One tree  One tree  11. AS Consider See Final Consister See Final	ENCY  Sime and visions  F DATE  Block 16  Cechnology De st of selected, hull, as on, weapon, wehnical draw (L-STD-31000) led for, nor lent of composition only (Administration only (Administration only in this documents)	emonstrated marger wings:  By date are the onent products of the contract of t	DATE OF FIRST ISSION  See Block 16  DATE OF SUBSEQUENT BMISSION See Block 16  rator shall be jor subsystems, as engine, s, tires, seats, should be at the ed 31 October 2018. hey adequate parts.  rized to Department ive or Operational ll be referred to	14.	See Sect DISTRIBUTION ADDRESSEE	CE tion F	COPI	inal
NO  A016  4. AUTHORITY Document No.,  7. DD 250 REQ  NO  8. APP CODE  N/A  16. REMARKS  Technical Draprovided. The needed for as transmission, door/hatches, Developmental The technical for use in, t  Block 9: Dist of Defense a Use) (2/25/20) Code 33, Offit to CDRL A016  Block 11: Compared to the control of the control o	9. DIST STATEMENT REQUIRED  See Block 16  wings of the fi se drawings sh sembly, which electric power and swim drive Level, as defi drawings are n he competitive cribution Statem nd U.S. DoD com 19). Other rec- ce of Naval Res-	One to recommend to the tree of the tee	ENCY  Sime and visions  F DATE  Block 16  Cechnology De st of selectide, hull, at on, weapon, echnical draw in this document of composition only (Admin. this document of bistribution only (Admin. this document of bistribution only (Admin. this document of composition of composit	emonstrated marger wings:  By date are thought authon istration:	DATE OF FIRST ISSION  See Block 16  DATE OF SUBSEQUENT EMISSION  See Block 16  Pator shall be jor subsystems, as engine, s, tires, seats, should be at the ed 31 October 2018. ney adequate parts.  Prized to Department ive or Operational ll be referred to Statement applies	14.	See Sect DISTRIBUTION ADDRESSEE	CE tion F	COPI	inal
AUTHORITY Document No.,  7. DD 250 REQ  NO  8. APP CODE  N/A  16. REMARKS  Technical Dra provided. The needed for as transmission, door/hatches, Developmental The technical for use in, t  Block 9: Dist of Defense a Use) (2/25/20 Code 33, Offit to CDRL A016  Block 11: Cc  Block 12: Ir delivery of A  Block 13: Fir	9. DIST STATEMENT REQUIRED  See Block 16  wings of the fi se drawings sh sembly, which electric power and swim drive Level, as defi drawings are n he competitive cribution Statem nd U.S. DoD com 19). Other red ce of Naval Res only.  contract/delivery mitial version of 007 (CDR Brief	nalized Tall consists All temperatures for search. The growth of the teeting Mater the technical consists and the technical consi	ENCY  Sime and visions  F DATE  Block 16  Cechnology De st of selected, hull, at on, weapon, schnical draw L-STD-310001 ded for, nor lent of composition only (Administration onl	mgs T REFER See Sec  12. I SUBM:  13. I SU  emonstricted mairmor, axles wings: B, date are thonent properties and the second structures and the second structures are the second structures and the second structures are the seco	DATE OF FIRST ISSION  See Block 16  DATE OF SUBSEQUENT EMISSION  See Block 16  Pator shall be jor subsystems, as engine, s, tires, seats, should be at the ed 31 October 2018. ney adequate parts.  Prized to Department ive or Operational ll be referred to Statement applies	a. Cont (see	See Sect DISTRIBUTION ADDRESSEE	CE tion F	COPI	inal
NO  A016  4. AUTHORITY Document No.,  7. DD 250 REQ  NO  8. APP CODE  N/A  16. REMARKS Technical Dra provided. The needed for as transmission, door/hatches, Developmental The technical for use in, t  Block 9: Dist of Defense a Use) (2/25/20 Code 33, Offit to CDRL A016  Block 11: Cc  Block 12: Ir delivery of A  Block 13: Fir	9. DIST STATEMENT REQUIRED  See Block 16  wings of the fi se drawings sh sembly, which electric power and swim drive Level, as defi drawings are n he competitive cribution Statem nd U.S. DoD com 19). Other rec ce of Naval Res only. contract/delivery mitial version of 1007 (CDR Brief mal version of see	nalized Tall consists All temperatures for search. The growth of the teeting Mater the technical consists and the technical consi	ENCY  Sime and visions  F DATE  Block 16  Cechnology De st of selected, hull, at on, weapon, schnical draw L-STD-310001 ded for, nor lent of composition only (Administration onl	mgs T REFER See Sec  12. I SUBM:  13. I SU  emonstricted mairmor, axles wings: B, date are thonent properties and the second structures and the second structures are the second structures and the second structures are the seco	DATE OF FIRST ISSION See Block 16 DATE OF SUBSEQUENT EMISSION SEE BLOCK 16 DAT	a. Cont (see	See Section G)	CE tion F	COPI	inal
NO  A016  4. AUTHORITY Document No.,  7. DD 250 REQ  NO  8. APP CODE  N/A  16. REMARKS Technical Dra provided. The needed for as transmission, door/hatches, Developmental The technical for use in, t  Block 9: Dist of Defense a Use) (2/25/20 Code 33, Offit to CDRL A016  Block 11: Cc  Block 12: Ir delivery of A  Block 13: Fir	9. DIST STATEMENT REQUIRED  See Block 16  wings of the fi se drawings sh sembly, which electric power and swim drive Level, as defi drawings are n he competitive cribution Statem nd U.S. DoD com 19). Other rec ce of Naval Res only. contract/delivery mitial version of 1007 (CDR Brief mal version of see	nalized Tall consists All temperatures for search. The growth of the teeting Mater the technical consists and the technical consi	ENCY  Sime and visions  F DATE  Block 16  Cechnology De st of selected, hull, at on, weapon, schnical draw L-STD-310001 ded for, nor lent of composition only (Administration onl	mgs T REFER See Sec  12. I SUBM:  13. I SU  emonstricted mairmor, axles wings: B, date are thonent properties and the second structures and the second structures are the second structures and the second structures are the seco	DATE OF FIRST ISSION See Block 16 DATE OF SUBSEQUENT EMISSION SEE BLOCK 16 DAT	a. Cont (see	See Section G)	CE tion F	COPI	inal

					T							
G. PREPARED BY		H. DATE I. APPROVED BY				J. DATE						
Jeff Bradel	f Bradel		25 Feb 2019		Darnell Griffin		25 Feb 2019					
1 DAMP	0 =====================================	3 m 3 m m			<u> </u>	2	CLIDMIMI E					
1. DATA ITEM NO.	2. TITLE OF D	ATA ITEM				٥.	SUBTITLE					
A017	Prototype Te	chnology	Demonstrator	Oper	ating Manual							
4. AUTHORITY	(Data Acquisiti	on	5. CONTRACT	REFE	RENCE		6. REQUIRING OFFIC	Œ				
Document No.)							_					
		ction C.4.11		See Sect	ion F							
7. DD 250 REQ		10 FREQU	JENCY									
	STATEMENT			FIRST SUBMISSION			14. DISTRIBUTION					
YES	REQUIRED		time and visions	SUBM	IISSION							
		10	V1510115		See Block 16			b. COPIES				
8. APP CODE	See Block 16	11. AS (	OF DATE	13.	DATE OF SUBSEQUENT	ľ	a. ADDRESSEE		F-1	inal		
N/A		See	Block 16	St	JBMISSION			Draft				
				L	See Block 16			<u></u>	Reg	Repr		
16. REMARKS							See Enclosure #1					
	cumentation cha	11 he nr	ovided that d	escri	bes the operations							
					atform. Information							
	hin shall desc											
					driving procedure	s,						
	vetraın for drı , and operation				reapon procedures							
(II INCIAGED)	, and operaction	or uning		111	.c.aucu,.							
					orized to Departme							
					ive or Operational							
					all be referred to							
to CDRL A017		search. T	nis Distribu	CION	Statement applies							
00 0212 1101,	· · · · · · · · · · · · · · · · · · ·											
Block 11: Con	tract/delivery	order aw	ard.									
D1 1 10 D	61			4 7								
	aft version of the delivery of A		ent is due 14	a cal	endar days prior t	.0						
the scheduled	delivery of A	019.										
Block 13: Fin	nal version of t	the docum	ent is due at	time	e of delivery of t	he	15. TOTAL					
TD vehicle							10. 101111					
G. PREPARED B	v	ı	H. DATE		I. APPROVED BY			J. DAT	r			
Jeff Bradel	· <b>-</b>				Darnell Griffin			25 Feb				
			25 Feb 2019						3			
1. DATA	2. TITLE OF D	ATA ITEM				3.	SUBTITLE	1				
ITEM NO.												
A018	Sa	afety Ass	essment Repor	t (SZ	AR)							
	<u> </u>		T =				Ta	_				
	(Data Acquisiti	on	5. CONTRACT	REFE	RENCE		6. REQUIRING OFFIC	Œ				
Document No.)	•		q	ee Se	ction C.4.16							
				ce be	C.T.T. C.T.T.		See Sect	ion F				
7. DD 250	9. DIST	10 FREQU	JENCY	DATE OF								
REQ	STATEMENT REQUIRED						FIRST SUBMISSION		14. DISTRIBUTION			
	THEOTIME			JOBM	DMISSIUN							
YES		revisions See Block 16					b. COPIES		ES			
8. APP CODE	See Block 16					a. ADDRESSEE		F	inal			
		See	Block 16	St	JBMISSION			Draft				
N/A				See Block 16				Reg	Repr			

16. REMARKS							See Enclosure #1			
The Safety Assessment Report (SAR) is a comprehensive evaluation of the safety risks being assumed prior to test or operation of the system or at contract completion. It identifies all safety features of the system, design, and procedural hazards that may be present in the system being acquired, and specific procedural controls and precautions that should be followed.										
This document shall be in Contractor format and adequately describe the mitigation strategies and approaches to reducing risks associated with operating the developed Technology Demonstrator platforms. Systems should include, but not limited to, weapon systems, fueling systems, batteries, doors/hatches, platform fail safes, braking, steering and handling, watertight integrity, bilge pump systems, etc. This report will primarily be used as information to the Government selected test facilities.										
description (development, relevant phot reference to equipment or (summary of t rank hazardou component, accomponent, accomponent, accomponent, accomponent)	include the fo to include a br brief descripti os and schemati operating and m facility requir he safety crite is conditions, 1 tions taken to is), and conclus	ief histon of the cs), systaintenance ements), ria and rist of a mitigate	orical summar e system and tem operation ce procedures systems safe methodology v ll hazards by risks, and a	ry of its cons (a s and ety en used to y subs a list	system omponents, description or any special gineering o classify and ystem or major					
Department of Operational Upreferred to O		S. DoD c . Other of Naval	ontractors or request for t Research. Th	nly (A this d	dministrative or locument shall be	- - -				
Block 11: Cor	ntract/delivery	order aw	ard.			ŀ				-
	ft version of t liness Review fo				dar days prior to	-				
	al version of tovernment Testin			the	Test Readiness	-				
							15. TOTAL			
G. PREPARED I Jeff Bradel	ЗY		<b>H. DATE</b> 25 Feb 2019		I. APPROVED BY Darnell Griffin			J. DATI 25 Feb		
1. DATA ITEM NO.	2. TITLE OF D	ATA ITEM								
A019	Government			eceipt	t List (GFMRL)	3. §	SUBTITLE			
	Government (Data Acquisiti	Furnishe				3. \$	SUBTITLE  6. REQUIRING OFFIC	CE		
	(Data Acquisiti	Furnishe	5. CONTRACT	REFE		3. 8				
4. AUTHORITY	(Data Acquisiti	on  10 FREQU	5. CONTRACT	T REFE	RENCE ction C.4.17  DATE OF	3. \$	6. REQUIRING OFFICE			
4. AUTHORITY Document No. 7. DD 250	(Data Acquisiti )  9. DIST STATEMENT	Furnishe  on  10 FREQU	5. CONTRACT	T REFE	RENCE ction C.4.17  DATE OF	3. \$	6. REQUIRING OFFICE See Sect	ion F	COPI	25
4. AUTHORITY Document No.  7. DD 250 REQ YES  8. APP CODE	(Data Acquisiti )  9. DIST STATEMENT	Turnishe  10 FREQUE  One re  11. As (	5. CONTRACT  SUBJECT  Time and evisions  OF DATE	T REFE	CTION C.4.17  DATE OF TISSION  See Block 16  DATE OF SUBSEQUENT		6. REQUIRING OFFICE See Sect	ion F		ES nal
4. AUTHORITY Document No.  7. DD 250 REQ YES	(Data Acquisiti )  9. DIST STATEMENT REQUIRED	Turnishe  10 FREQUE  One re  11. As (	5. CONTRACT  SUBSECTION  SUBSE	T REFE	RENCE ction C.4.17  DATE OF T ISSION See Block 16		6. REQUIRING OFFICE See Sect 14. DISTRIBUTION	b.		_
4. AUTHORITY Document No.  7. DD 250 REQ YES  8. APP CODE	(Data Acquisiti )  9. DIST STATEMENT REQUIRED	Turnishe  10 FREQUE  One re  11. As (	5. CONTRACT  SUBJECT  Time and evisions  OF DATE	T REFE	CTION C.4.17  DATE OF T ISSION  See Block 16  DATE OF SUBSEQUENT UBMISSION		6. REQUIRING OFFICE See Sect 14. DISTRIBUTION	b.	Fi	.nal
4. AUTHORITY Document No.  7. DD 250 REQ YES 8. APP CODE N/A  16. REMARKS Upon receipt acquisition of	9. DIST STATEMENT REQUIRED  of Government f f Contractor A or shall submit	Turnished cquired	5. CONTRACT  UENCY  time and visions  OF DATE  Block 16  Equipment ar Property rela	T REFE See Se 12. FIRS SUBM 13. St	Ction C.4.17  DATE OF T ISSION See Block 16 DATE OF SUBSEQUENT JEMISSION See Block 16  Ormation, or to this contract,		6. REQUIRING OFFICE See Sect 14. DISTRIBUTION  a. ADDRESSEE	b.	Fi	.nal
4. AUTHORITY Document No.  7. DD 250 REQ  YES 8. APP CODE  N/A  16. REMARKS Upon receipt acquisition of the Contractor the Contractor List (GFMRL),  • Descript: • Date and • GFE value	9. DIST STATEMENT REQUIRED  of Government f f Contractor A or shall submit	One re  11. AS ( See  urnished cquired : a Govern  of the e.ch recei	JENCY  time and visions  OF DATE  Block 16  Equipment ar  Property relament Furnish	T REFE See Se  12. FIRS SUBM  13. St  and Infating and Ma	CETION C.4.17  DATE OF T ISSION  See Block 16  DATE OF SUBSEQUENT JEMISSION  See Block 16  Ormation, or to this contract, terial Receipt		6. REQUIRING OFFICE See Sect 14. DISTRIBUTION  a. ADDRESSEE	b.	Fi	.nal
4. AUTHORITY Document No.  7. DD 250 REQ  YES  8. APP CODE  N/A  16. REMARKS Upon receipt acquisition of the Contractor List (GFMRL),  • Descript: • Date and • GFE value • Details of Any other	9. DIST STATEMENT REQUIRED  See Block 16  of Government for Contractor Arr shall submit detailing: ion / reference location at while (as applicable of any discrepant pertinent note)	Turnished One re  11. As of See  urnished cquired is a Govern of the each receively	JUNCY  time and visions  OF DATE  Block 16  Equipment ar Property relament Furnish  equipment / inved	T REFE See Se  12. FIRS SUBM  13. St  nd Infating hed Ma	CETION C.4.17  DATE OF T ISSION  See Block 16  DATE OF SUBSEQUENT JEMISSION  See Block 16  Ormation, or to this contract, terial Receipt	T	6. REQUIRING OFFICE See Sect 14. DISTRIBUTION  a. ADDRESSEE	b.	Fi	.nal

		order a		12, 13	: Due as require	d. <b>15. TOTAL</b>			
G. PREPARED BY Jeff Bradel			H. DATE 25 Feb 2019	9	I. APPROVED BY Darnell Griffin		J. DAT 25 Feb	_	
1. DATA ITEM NO. A020	List	of Prop	perty Acquir	ed or I	Provided	3. SUBTITLE	<u> </u>		
4. AUTHORITY (1 Document No.)	Data Acquisiti	on	5. CONTRAC		RENCE ection C	6. REQUIRING See	OFFICE Section F		
2	9. DIST STATEMENT REQUIRED	10 FREÇ			DATE OF FIRST	14. DISTRIBUT	TION		
YES 8. APP CODE	See Block 16	11 20	OF DATE	13	See Block 16  DATE OF SUBSEQUEN	T a. ADDRESSEE		COPI	
N/A	see Block 10		e 30		UBMISSION  Every 12 MTHS thereafter	a. ADDRESSEE	Draft	Reg	inal Rej
under the cont. found at: http contract/contr.  Block 9: Distr. DoD Contractor. referred to the  Block 12: Fir period of perfe	provided or C ract in accord ://www.onr.nav act-forms-down ibution Statem s only. Other e Program Offi st submission ormance or thi d of performan	ontract ance wi y.mil/C load.as; ent D. request cer lis is due rty-day	or Acquired th the GFP D contracts-Gra px  Distribution s for this d ted in the c on 30 June w s prior to t	Propertion Into Into Into Into Into Into Into In	ty (CAP) acquired put Spreadsheet nage- rized to DoD and t shall be t. the base contract				
G. PREPARED BY			H. DATE		I. APPROVED BY		J. DAT	E	

### ENCLOSURE NUMBER 1 CONTRACT DATA REQUIREMENTS LIST INSTRUCTIONS FOR DISTRIBUTION

### **DISTRIBUTION OF PROGRESS REPORTS, which are NOT, Technical Reports**

The minimum distribution for reports that are not technical reports is as follows:

		NUMBER	OF COPIES
ADDRESSEE	DODAAC CODE	UNCLASSIFIED / UNLIMITED	UNCLASSIFIED/ LIMITED AND CLASSIFIED
Program Officer: Jeff Bradel ONR Code 33 E-Mail: jeff.bradel@navy.mil Office of Naval Research 875 North Randolph St. Arlington, VA 22203-1995	N00014	1	1
Administrative Contracting Officer* (https://pubapp.dcma.mil/CASD/CasdSearch.do)	S0701A	1	1

<sup>\*</sup>Send only a copy of the transmittal letter to the Administrative Contracting Officer; do not send actual reports to the Administrative Contracting Officer.

# <u>DISTRIBUTION OF TECHNICAL REPORTS AND FINAL REPORT</u> (A SF 298 must accompany the final report)

		NUMBER (	OF COPIES
ADDRESSEE	DODAAC CODE	UNCLASSIFIED / UNLIMITED	UNCLASSIFIED /LIMITED AND CLASSIFIED
Program Officer: Jeff Bradel	N00014	1	1
ONR Code 33			
E-Mail: jeff.bradel@navy.mil			
Administrative Contracting Officer* (https://pubapp.dcma.mil/CASD/Casd Search.do)	S0107A	1	1
Director, Naval Research Lab Attn: Code 5596 4555 Overlook Avenue, SW	N00173	1	1
Washington, D.C. 20375-5320 E-mail: reports@library.nrl.navy.mil			
Defense Technical Information Center 8725 John J. Kingman Road ATTN: DTIC-C Ft. Belvoir, VA 22060-6218	HJ4701	1	1

	NUMBER OF COPIES
To submit reports electronically, go to the Submit home page of the DTIC Enterprise Contract Management System (ECMS): <a href="http://www.dtic.mil/dtic/submit/submit.html">http://www.dtic.mil/dtic/submit/submit.html</a>	
E-mail ( <u>public release pdf documents</u> <u>only</u> ): <u>dtic.belvoir.ecm.mbx.tr@mail.mil</u>	
Classified documents should be emailed to tr@dtic.smil.mil or sent via surface mail to DTIC at the above address. Submittals must be in accordance with all classified material handling procedures.	

<sup>\*</sup> Send only a copy of the transmittal letter to the Administrative Contracting Officer; do not send actual reports to the Administrative Contracting Officer.

# ELECTRONIC SUBMISSIONS OF TECHNICAL REPORTS TO THE ENTERPRISE CONTRACT MANAGEMENT SYSTEM (ECMS) IS PREFERRED AND ENCOURAGED. HOWEVER, PLEASE NOTE THE FOLLOWING:

- Only Unlimited/Unclassified document copies should be submitted by e-mail.
- Unclassified/Limited has restricted distribution and a classified document (whether in its entirety or partially) must be distributed in accordance with classified material handling procedures.
- Electronic submission to DIRECTOR, NAVAL RESEARCH LAB, shall be unclassified/unlimited reports and 30 pages or less. If unclassified and more than 30 pages, hardcopies of reports must be mailed.
- Electronic submission to DTIC shall be unclassified/unlimited reports. If submission is for limited documents please send them in on a disk or sign up for DTIC's web-based document submission system at http://www.dtic.mil/dtic/submit/submit.html. DTIC prefers PDF/A files; however, other versions of PDF files will also be accepted. NOTE: DTIC can no longer accept the following file types via email: password protected, zipped or compressed files, file with the extensions: \*.vbs, \*.cmd, \*.exe, \*.bat, \*.com, \*.mp3, \*.eml and \*.dll.

Note: If the Program Officer directs, the Contractor shall make additional distribution of technical reports in accordance with a supplemental distribution list provided by the Program Officer.

### Office of Naval Research (ONR)

# Armored Reconnaissance Vehicle (ARV) Advanced Technology Development Future Naval Capability (FNC) Program

Statement of Work (SOW)

For

**Technology Demonstrator (TD) Design, Fabrication, Test & Demonstration** 

Distribution Statement A: Approved for public release: distribution unlimited.



### **REVISION HISTORY**

Revision	Revision Date	Comments
Initial Release	14 Nov 2018	_
Contractual Release	20 Mar 2019	



### TABLE OF CONTENTS

			<u>Page</u>
<b>A.</b>	A.1	Background	1
B.	App	licable Documents	5
		Department of Defense Specifications	
	B.2	Military Handbooks, Instructions, Directives, Standards and Guides	5
	B.3	Availability of DoD Documents	6
	B.4	Other Documents, Drawings and Publications	6
C.	Rea	uirements (Applicable to Base and Option Periods)	8
		General Requirements	
		C.1.1 Resource Requirements	
		C.1.2 Security	
	C.2	Program Management	
	C.3		
	C.4	SOW Tasks	
Apj	oendi	x A. Single Hull Exploitation Model	15
App	pendi	x B. Prospective Coupon Inventory	16
		LIST OF FIGURES	
			Page
A.2		ARV Technical Demonstrator Hull	2
App	<b>)-</b> 1 ]	Prospective Blast, Ballistic and Exploitation Plan	15

### A. SCOPE

This Statement of Work (SOW) describes the work scope associated with the design, development, fabrication, manufacture, test and evaluation of a blast/ballistic hull and a technology demonstrator vehicle for the Armored Reconnaissance Vehicle (ARV) Program. It includes all efforts associated with the Base Period, to include the Preliminary Design Review (PDR), the Critical Design Review (CDR), Blast/Ballistic Hull Build and associated Test Support, Technology Demonstrator Vehicle Build and associated Test Support. The final deliverable for the Base Period will be a Final Report outlining the findings and conclusions from the effort and developmental level technical data. Additionally, it describes the work scope associated with four (4) Option Periods: two (2) additional 6-month Test and Evaluation periods and two (2) additional Blast/Ballistic Hulls.

### A.1 Background

The Armored Reconnaissance Vehicle (ARV) is envisioned as a possible next generation replacement for the U.S. Marine Corps' legacy Light Armored Vehicle (LAV) in support of the Light Armored Reconnaissance (LAR) battalions within the Marine Divisions. LAR Battalions have been designed to perform combined arms, all-weather, sustained reconnaissance and security missions in support of the Ground Combat Element and aim to reduce the "fog of war." Two of the fundamental roles of the LAR Battalion include shaping the battlespace by facilitating a commander's ability to maneuver and concentrate forces at the decisive point and providing information to commanders that yields a high degree of situational awareness.

Facing more modern threats, LAR Battalions will have to fight for information prior to being able to provide it and will have to shape an increasingly complex battlespace. LAR Battalions will operate in highly contested environments, countering threats that have greater reach and lethality. Next generation armored reconnaissance will require multiple and resilient means to sense and communicate, more capable lethality options to destroy heavily armored threats close-in and at range, and an associated enhanced protection posture to counter those threats.

Core to this next generation capability is the ARV which will be a modern combat vehicle system that balances competing capability demands to sense, shoot, move, communicate and must remain transportable as part of the naval expeditionary force. The ARV will not be an incremental upgrade/development to the legacy LAV and some of the capabilities envisioned include, but are not limited to:

- Ability to enhance and extend the reconnaissance reach and provide persistent surveillance
- Incorporation of manned and un-manned teaming to extend the reach of the Light Armored Reconnaissance (LAR) battalion
- A modern C4I suite that is a critical node in Intelligence, Surveillance and Reconnaissance (ISR) with tactical battle management systems
- Robust cross-country and on-road land mobility with shore-to-shore water mobility
- Full spectrum passive & active force protection and survivability
- Ability to deliver direct and indirect fires kinetically and non-kinetically
- Similar levels of transportability to the legacy LAV which defines platform size and weight
- Drive-by-wire capability
- Interoperability, modularity and open systems architecture

### A.2 Purpose

SAIC (the Contractor) is proposing to develop an ARV Technology Demonstrator (TD) for the Office of Naval Research (ONR) in response to the Broad Agency Announcement (BAA) N00014-19-S-B002. It is desired that a future ARV will be capable of fighting for information in an increasingly complex and contested environment and able to counter threats with greater reach and lethality. The technology demonstrator and blast/ballistic hulls delivered under this effort will be used to demonstrate the state of the art and to assess the potential capability and performance of advanced technologies and future concepts. The goal is to demonstrate the realm of the possible to inform the requirements development process and to engage Industry and Academia early in the process.

"Mission First, Marines Always" is SAIC's lodestar as we innovate and collaborate with ONR on this critical Science and Technology program. Fusing our understanding of the Light Armored Reconnaissance (LAR) mission and their current and projected operational challenges with our scientific, engineering, manufacturing, and sustainment expertise is the hallmark of SAIC's ability to redefine ingenuity in the integration of advanced and revolutionary technologies into a capability leap forward for the next generation ARV.

Essential to "Marines Always" is improving force protection and systems survivability to meet the emerging and forecasted threat operating environment and sustaining them at the far edge of extended lines of communications in an austere expeditionary environment with minimal external support. Vital is a state-of-the-art layered force protection approach. Key to this is a validation strategy that provides ONR the confidence that the SAIC occupant protection solution is robust and is in keeping with our industry-leading reputation for superior tactical vehicle survivability systems.

The ARV program is primarily researching a base capability for a notional ARV and is not intended to research all possible capabilities or variants that will be resident in a full family of vehicles that will be part of the eventual acquisition program. The SAIC ARV, shown in Figure A.2-1, is designed to meet or exceed program objective performance levels and optimized to meet the emerging needs of USMC Our series hybrid-electric forces. powertrain design allows engine-off silent mobility (land or swim) for extended ranges, and up to 24 hours of silent watch to support low infiltration. reconnaissance. signature surveillance, and battlespace shaping mission needs. Vehicle primary power is provided by



19-WP-AUIA-2G1R75-131

Figure A.2-1. ARV Technology Demonstrator

two 200 hp Auxiliary Power Units (APUs) located at the rear of each sponson to balance vehicle Center of Gravity (CG), directly drive the two marine outdrives, and free-up valuable interior space in the vehicle for the crew, mission systems, and dismounted scouts.

The vehicle hull is an aluminum armor welded structure and spall liner that provides protection against baseline threats. The hull has integral buoyant, ceramic-composite armor which provides required displacement for safe water operations and protection against kinetic threats and is

designed to accept additional B-kit armor for advanced threats. Our 6x6 running gear includes a large travel, active hydro-strut suspension, Central Tire Inflation System (CTIS), and pivot steer capability for operation in confined spaces. A reconfigurable, remotely-operated weapons turret provides a 30 mm cannon and Anti-Tank Guided Missile (ATGM) or Air Defense (AD) capability, and independent sights for the gunner and commander.

The developed Technology Demonstrator shall be based upon the configuration proposed by the Contractor as follows:

### Reconnaissance

- Tether/Untethered Unmanned Aerial System (UAS) with abilities of landing/taking off On-the-Move
- Advanced Dual Band FLIR
- o VICTORY Architecture and redundant communications

### • Battlespace Shaping

- o 30mm cannon with hunter-killer capabilities
- o Command-Gunner Sights
- o Size, Weight, and Power (SWAP) for Javelin Missile System
- o Size, Weight, and Power (SWAP) for Counter-UAS
- o Auto-Target Slew-to-cue and Target Handoff
- Tactical Electronic Warfare (EW) System

### Security Operations

- o Redundant Plug-and-Play, Joint-Interoperable Communications
- Battle Management System (BMS)

### Vehicle Attributes

- Hybrid Electric Drive
- o Silent Mobility (Water), range of 13+ nm.
- o Silent Mobility (Land), range of 40+ mi.
- o Silent Watch, 30+ hrs.
- o GVW of 31,300 lbs. / GVWR of 37,000 lbs.
- o Length: 269", Width: 115", Height: 127"
- o Land Speed (GVW/GVWR): 70 mph
- O Speed on 5% Grade: 47 mph (GVW), 45 mph (GVWR)
- o Water Speed: 7.5 kts (GVW), 7.1 kts (GVWR)
- o Turning Radius: <1.5 Vehicle Length
- o Reserve Buoyancy: 31% (GVW), 18.4% (GVWR)
- o Fuel Economy: 5.9 mph (GVW), 5.5 mph (GVWR)
- o Range (Standard, Land): 412 mi. (GVW), 400 mi. (GVWR)

- o Crew/Scouts: 3/3
- o Objective-level Ballistic/Underbody Protection
- SWAP Allocation for an Active Protection System (APS)

Although the BAA stipulated the requirement for two blast/ballistic hulls, the developmental cost of two "at-the-edge" production-representative hulls fully outfitted with mobility and occupant protection packages exceeds the NTE budget proposed by ONR. Therefore, the Contractor (SAIC) will provide a single, fully representative vehicle for underbody blast and ballistic test and exploitation and in addition, provide a full set of as-integrated, ballistic coupons for all armor, substrate and spall liner combinations to allow complete ballistic characterization of the solution. This approach, proven in the AAV SU program provides a combination of robust LFT&E assets and an exploitation platform, which optimizes evaluation capability and test support within the proposed budget. The prospective blast, ballistic, and exploitation test plan (Appendix A) demonstrates the efficiency of this methodology supported by data from AAV SU LFT&E at ATC. This combination of test assets presents ONR with the greatest value for ballistic and blast validation for ARV.

### **B.** APPLICABLE DOCUMENTS

The following documents form a part of this SOW to the extent specified herein. Unless otherwise noted, in the event of a conflict between the SOW and the references cited herein (except for related specification sheets), the text of this SOW takes precedence.

### **B.1** Department of Defense Specifications

Reference	Title
MIL-PRF-29612	Training Data Product Specification
MIL-PRF-81309	Corrosion Preventive Compounds, Water Displacing, Ultra-Thin Film

### B.2 Military Handbooks, Instructions, Directives, Standards and Guides

Reference	Title
DoD IMP and IMS	Department of Defense (DoD) Integrated Master Plan and Integrated
Preparation and Use Guide	Master Schedule Preparation and Use Guide (v0.9 dated 21 Oct 2005)
DoD 4160.28	Defense Demilitarization Manual
DoD 5000.04-M-1	Cost and Software Data Reporting (CSDR) Manual
DoD 5220.22-M	National Industrial Security Program Operating Manual
DoDD 8500.01E	Information Assurance (IA)
DoDI 2030.08	Implementation of Trade Security Controls for Transfer of DoD U.S. Munitions List
DoDI 8500.2	IA Implementation
DoDD 8570.01	Information Assurance Training, Certification, and Workforce
	Management
DoDI 5200.39	Critical Program Information Protection Within the DoD
ISO 9001	International Organization for Standardization (ISO)
MIL-DTL-5002	Surface Treatments and Inorganic Coatings For Metal Surfaces of Weapons Systems
MIL-DTL-53072C	Chemical Agent Resistant Coating System Application Procedures and Quality Control Inspection
MIL-HDBK-61	Configuration Management (CM) Guidance
MIL-HDBK-419	Grounding, Bonding and Shielding For Electronic Equipment and Facilities
MIL-STD-129P	Military Marking for Shipment and Storage
MIL-STD-130	Identification Marking of US Military Property
MIL-STD-3018	Parts Management
MIL-STD-464C	Electromagnetic Environmental Effects Requirements for Systems
MIL-STD-810G	Environmental Engineering Considerations and Laboratory Tests
MIL-STD-882E	System Safety
MIL-STD-889	Dissimilar Metals
MIL-STD-1472	DoD Design Criteria Standard: Human Engineering
MIL-STD-2073 1E	Standard Practice for Military Packaging

Reference	Title
MIL-STD-3018	DoD Standard Practice: Parts Management
MIL-STD-31000B	Technical Data Packages
MIL-STD-38784	Technical Manual Specs and Standards
MIL-STD-46855A	DoD Handbook: Human Engineering Guidelines for Military Systems, Equipment, and Facilities
MIL-STD-7179	Finishes, Coatings, and Sealants, for the protection of aerospace weapons systems
OPNAVINST	Operations Security
3432.1A	
Risk Management	Risk Management Guide for DoD Acquisitions, Sixth Edition (Version
Guide	1.0) dated Aug 2006

### **B.3** Availability of DoD Documents

Military Specifications are available online at https://assist.daps.dla.mil/quicksearch or https://assist.daps.dla.mil or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.

DoD Directives, Manuals, Instructions and Publications are available online at http://www.DTIC.mil/ or from the National Technical Information Services (NTIS), 5285 Port Royal Road, Springfield, VA 22161.

### **B.4** Other Documents, Drawings and Publications

Reference	Title		
ANSI/GEIA-859-2004	Data Management		
ASME Y14.34	Engineering Standards		
ASME Y14.100	Standard-Engineering Drawing Practices		
ASTM-D-3951	Standard Practice for Commercial Packaging		
On-line Resource	Defense Acquisition Guidebook		
N/A	Defense Information Security Agency (DISA) Security Technical Implementation Guide (STIG)		
DLM 4000.25-2-M	Military Standard Transaction Reporting and Accounting Procedures (MILSTRAP)		
DTM-11-003	Directive-Type Memorandum (DTM) – Reliability Analysis, Planning, Tracking, and Reporting		
FD/SC dated 11 May 1998	Failure Definition and Scoring Criteria		
GEIA-STD-0007	Logistic Product Data		
(MRL) Deskbook, Version 2.2.1	Manufacturing Readiness Level (MRL) Deskbook, dated Oct 2012		
NAVAIR Public Release 09-456	NAVAIR IMS Guidebook		
NRMMII Version 2.8.2b	North Atlantic Treaty Organization (NATO) Reference Mobility Model Edition II		

Reference	Title
TM 4750-OD/1	Paint, Coating, Underbody and Registration Marking for Marine Corps Combat and Tactical Equipment: August 2012
TM 10510-OD/1M	General Purpose Test, Measurement and Diagnostic Equipment (TMDE) Listing
TM 4795-OR/1A	Organizational Corrosion Prevention and Control Procedures for USMC Equipment April 2011
Technology Readiness Assessment (TRA)	Technology Readiness Assessment (TRA) Guidance, Dated Apr 2011

### C. REQUIREMENTS (APPLICABLE TO BASE AND OPTION PERIODS)

### **C.1** General Requirements

### **C.1.1** Resource Requirements

The Contractor (SAIC) shall provide the necessary resources to complete the requirements identified in this SOW. The Contractor shall provide personnel in the program level leadership positions including Program Manager, Integrated Product Team (IPT) Leaders or Team Leads (this includes the Lead/Chief Engineer and Principal Investigator as examples), Contracts, Business Manager (or similar) and other positions that require leadership oversight.

### C.1.2 Security

The Contractor shall have and maintain a secret Facility Clearance prior to award and shall ensure Subcontractors obtain and maintain classified access eligibility as applicable. The Contractor shall have a valid secret Facility Clearance Level prior to conducting any classified work. The Prime Contractor and all Subcontractors (through the Prime Contractor) shall adhere to all aspects of DoD Directive 5220.22-M. All personnel identified to perform on this contract shall maintain compliance with DoD and Department of the Navy (DON) Information and Personnel Security Policy to include completed background investigations (as required) prior to classified performance. The Contractor shall comply with the Science and Technology Program Security Plan (ST-PSP) for the Armored Reconnaissance Vehicle Advanced Technology Development FNC Program. The ST-PSP will provide the Contractor with information on the necessary security measures required to secure Controlled Unclassified Information (CUI), "Candidate" Critical Program Information, and Classified data. If it is determined that access to classified information will be required during the performance of an award, a Department of Defense (DD) Form 254 will be attached to the contract, and FAR 52.204-2 - Security Requirements will be incorporated into the contract.

### C.2 Program Management

The Contractor shall provide a qualified Program Manager (PM) that will be responsible for the accomplishment of all tasks in this SOW. The PM shall plan, organize, manage, schedule, implement, control, analyze, and report on all elements of the SOW. The PM shall have resources and authority to efficiently and effectively execute tasks necessary to complete the requirements. The PM shall be prepared to present and discuss the status of contract activities, requirements, and issues with the ARV Mobility Program Officer, PCO and Contracting Officer Representative (COR). The PM shall also be responsible to assess requirements changes and implement approved changes, as authorized by the PCO. The PM shall develop and maintain an Integrated Master Plan (IMP) and deliver a derived, time-based Integrated Master Schedule (IMS) (CDRL A003).

### **C.3** SOW Requirements

The SOW requirements shall be priced by Tasks corresponding to this SOW (but under separate cover) and provide discrete material costs, labor costs and travel costs. In addition, SAIC shall develop, establish, maintain and control all manufacturing processes, tooling, training and qualifications of personnel necessary to complete the SOW tasks.

This SOW comprises three types of deliverables: 1) Non Recurring Engineering (NRE) for design, testing and production of technical data, 2) Material deliveries, 3) Test support.

NRE is expected to encompass engineering design, analysis and test. NRE also encompasses preparation and delivery of applicable developmental level CAD models and drawings as well as contractor-formatted installation instructions and repair manuals, initial, on-site installation

instruction and initial, on-site quality assurance. NRE hours shall be allocated by design task and labor category.

Material deliveries are expected to encompass the fabrication, manufacture, assembly and acceptance testing of ballistic coupons, blast/ballistic hull, technology demonstrator vehicle, final report, and developmental level technical data.

Test support is expected to encompass the labor, ODC and travel associated with supporting the Ballistic Coupon testing, Blast/Ballistic Hull Live Fire Test and Evaluation (LFT&E) and Technology Demonstrator developmental vehicle testing.

### C.4 SOW Tasks

SOW tasks articulated here comprise the sum of efforts required to deliver the necessary end items to support ONR testing of the SAIC ARV protection solution. These tasks have been broken down into Base Period and Option Periods. It should be assumed that SAIC has established and maintains separate, similar SOWs with our subcontractors and suppliers supporting this effort.

### Base Period Task List

### 1. Conduct Post Award Conference (PAC).

The Post Award Conference (PAC) is the first meeting of key Contractor/Government players. During the conference, participants discuss roles and responsibilities and agree on an interpretation of contract requirements for all parties. The PAC includes a briefing (CDRL A004) to review the contract terms, conditions and requirements, line items and sequence of events needed for successful execution of the contract effort.

The Contractor shall host a Base Period PAC at a Contractor or Subcontractor facility to include Contractor and Government contracting, management, quality assurance and technical personnel no later than 30 calendar days after contract award. The Contractor shall participate with the Government to arrange a schedule and agenda for the PAC prior to the meeting. The Contractor shall provide the Government with minutes of the PAC (CDRL A002). The meeting minutes will be in Contractor format.

The Contractor shall host a Contract Option PAC at a Contractor or Subcontractor facility, or via telephone conference if determined to be acceptable by the Government, to include Contractor and Government contracting, management, quality assurance and technical personnel no later than 30 calendar days after any Option Period is exercised. The Contractor shall participate with the Government to arrange a schedule and agenda for the PAC prior to the meeting. The Contractor shall provide the Government with minutes of the PAC (CDRL A002). The meeting minutes will be in Contractor format.

### 2. Progress Reports

Monthly Progress Reports shall be in Contractor format and include a description of the technical work completed and accomplishments during the reporting period and work planned for the next reporting period IAW CDRL A001.

### 3. Conduct Quarterly In-Process Reviews (IPRs).

The Contractor shall conduct In-Process Reviews (IPRs) at or near ONR, Arlington VA and/or the Contractor/Subcontractor's facility on a quarterly basis during the Base Period to assess program cost, schedule, performance, process implementation, risk and status related to the execution of the ARV Technology Demonstrator Program. The first IPR shall be conducted no sooner than 90 calendar days after contract award and quarterly thereafter. The Contractor

shall develop and present the information at the IPRs in the form of a presentation and IAW CDRL A005. The IPRs may be held in conjunction with other reviews and conferences to limit meeting proliferation. The Contractor shall summarize the following during each IPR:

- 1) Work completed (inclusive of meeting action items)
- 2) Work planned for upcoming quarter
- 3) Contract tasks not completed
- 4) Significant accomplishments
- 5) Problems or delays
- 6) Corrective actions
- 7) Schedule updates
- 8) Other program or personnel changes
- 9) Risk Management Status (Safety included)
- 10) Configuration Management
- 11) IMS review
- 12) Schedule Risk Assessment (SRA)
- 13) Cost Status Reporting (CSR) with most recent cost estimates
- 14) Status Report from each functional lead
- 15) Project Metric Status

### 4. Conduct Preliminary Design Review (PDR).

The Contractor shall participate in a PDR of the ARV design at a Contractor or Subcontractor facility at a date to be determined at the PAC and, based on timing, can be held in place of the first quarterly IPR meeting. For planning purposes, all PDR documentation shall be delivered no later than seven (7) calendar days prior to the scheduled meeting. The Contractor shall develop, submit, and present the ARV design at PDR in the form of a presentation in Contractor format and IAW CDRL A006. The PDR shall not exceed one (1) day. The Government Technical Review Board will review PDR documentation and return comments/Request for Actions for reconciliation with the Contractor prior to the PDR.

### 5. Conduct Critical Design Review (CDR).

The Contractor shall participate in a CDR of the ARV design at a Contractor or Subcontractor facility no sooner than 180 calendar days after contract award but no later than 210 calendar days after contract award and based on timing can be held in place of one of the quarterly IPR meetings. For planning purposes, all CDR documentation shall be delivered no later than seven (7) calendar days prior to the scheduled meeting. The Contractor shall develop, submit, and present the ARV design at CDR in the form of a presentation in Contractor format and IAW CDRL A007. The CDR shall not exceed two (2) days. The Government Technical Review Board will review CDR documentation and return comments/Request for Actions for reconciliation with the Contractor prior to the CDR.

### 6. Deliver One (1) Each Blast/Ballistic Hull and Associated Ballistic Coupons.

### 6.1. Hull Manufacture

The Contractor shall manufacture and deliver one (1) each Blast/Ballistic Hull for use in Government Live Fire Test and Evaluation (LFT&E). Hull manufacturing tasks are those which result in the production of the welded and machined hull representative of the intended production design. Quality controls and key characteristics are established for each step in the process and that the product entry and exit criteria are met prior to gate passage. Hull

manufacture includes, but is not limited to design development (PDR and CDR activities), material procurement (including commercial item acquisition), fabrication, paint and coating, final integration and function testing.

### 6.2 Ballistic Coupon Manufacture

The Contractor shall manufacture and deliver one (1) complete set of Ballistic Coupons for use in Government LFT&E. Ballistic coupon manufacturing tasks are those that result in the production of a complete set of ballistic and fragmentation test coupons to support LFT&E of the SAIC ARV. Quality controls and key characteristics are established for each step in the process and that the product entry and exit criteria are met prior to gate passage. A proposed ballistic coupon inventory is included in Appendix B. Coupon manufacture includes design development (PDR and CDR activities), material procurement, fabrication and assembly.

### 7. Support Ballistic Coupon and Blast/Ballistic Live Fire Testing.

The Contractor shall provide the personnel and equipment necessary to supervise and direct preparation of test assets, provide transport of assets in and around the test site, coordinate repair and routine maintenance during the test evaluations and support Test Readiness Reviews (TRRs) (CDRL A008), pre-test validations and post-test debriefs.

8. Deliver One (1) Each Technology Demonstrator (TD) Vehicle.

### 8.1 Hull Manufacture

The Contractor shall manufacture one (1) each Technology Demonstrator hull for further vehicle manufacturing and integration and eventual use in Government Developmental Vehicle Testing. Hull manufacturing tasks are those that result in the fabrication of the production–representative welded and machined hull. Quality controls and key characteristics are established for each step in the process and that the product entry and exit criteria are met prior to gate passage. Hull manufacture includes, but is not limited to design development (PDR and CDR activities), material procurement (including commercial item acquisition), fabrication, paint and coating, final integration and function testing.

### 8.2 Subsystem Manufacture

The Contractor shall manufacture the required subsystems necessary for further vehicle integration and eventual use in Government Developmental Vehicle Testing. Subsystem manufacture tasks are those that result in the acquisition, procurement or fabrication of the production-representative vehicle subsystems which make up the finished vehicle. These subsystems include, but are not limited to, power pack/drivetrain, suspension, fuel, electronics, controls, survivability systems, seating, environmental controls and ventilation, water mobility and weapons systems. Quality controls and key characteristics are established for each step in the process and that the product entry and exit criteria are met prior to gate passage. Subsystem manufacture includes, but is not limited to design development (PDR and CDR activities), material procurement fabrication, paint and coating, final integration and function testing.

### 8.3 Technology Demonstrator Vehicle Integration

The Contractor shall manufacture, integrate, and deliver one (1) each Technology Demonstrator Vehicle for use in Government Developmental Vehicle Testing. Vehicle integration tasks are those that result in the integration of the production-representative vehicle subsystems into the finished vehicle. These subsystems include, but are not limited to, power pack/drivetrain, suspension, fuel, electronics, controls, survivability systems, seating, environmental controls and ventilation, water mobility and weapons systems. Quality controls and key characteristics are established for each step in the process and that the product entry and exit criteria are met prior to gate passage. Vehicle integration includes, but is not limited to design development (PDR and CDR activities), material procurement, paint and coating, final integration and function testing.

### 9. Contractor Acceptance Test Plan (ATP)

The Contractor shall develop an Acceptance Test Plan (ATP). The ATP content shall detail the criteria, performance objectives, and list of test procedures and/or demonstrations to be performed by the Contractor for acceptance test on the ARV Technology Demonstrator vehicle. The ATP shall be used by the Contractor to demonstrate to the Government that the Contractor has verified compliance with manufacturing checks as well as confirm basic land and water vehicle mobility-related functionality: including starting, stopping, turning, and break-in operation (BIO); in addition to functionality of the weapon systems; organic unmanned systems; and battle management system. The ATP shall also confirm compliance with attributes essential for safe vehicle operation. The Contractor shall prepare and submit the ATP in contractor format and in accordance with CDRL A010.

### 10. Contractor Acceptance Test Readiness Review (ATRR)

The Contractor shall conduct an ATRR no later than 30 days prior to the initiation of the Acceptance Testing (AT) for the TD vehicle. The purpose of the ATRR is to determine readiness to begin acceptance testing. At the ATRR, the Contractor shall review and provide documentation, in accordance with CDRL A009, to establish test readiness in areas to include but not limited to system configuration, performance, safety, and test item maturity.

### 11. Technology Demonstrator Operating Manual (CDRL A017)

Sufficient documentation shall be provided, in Contractor format, that describes the minimum safe operation of the Technology Demonstrator vehicle. Information contained within shall describe, at a minimum, vehicle starting procedures, operations of the doors/hatches, vehicle driving procedures, modifying drivetrain for driving on various terrain, weapon procedures (if included), and operation of unmanned assets (if included).

### 12. Support Technology Demonstrator Developmental Vehicle Testing.

The Contractor shall provide the personnel, to include Field Service Representatives (FSRs), at least one (1) vehicle operator (if required), on-site engineers, and equipment necessary to supervise and direct preparation of test assets; provide transport of assets in and around the test site; provide spare parts; coordinate repair and routine maintenance during the test evaluations; and support Test Readiness Reviews (TRRs) (CDRL A011), pre-test validations and post-test debriefs.

### 13. Final Review Meeting

The meeting date for the Final Review will be negotiated with the contractor based on key personnel availabilities, but shall take place between 14-30 calendar days prior to the end of the contract's period of performance (POP). The Contractor shall develop, submit, and present the ARV Final Review briefing in the form of a presentation in Contractor format and IAW CDRL A012. The Final Review Meeting shall include technical details associated with the specific work completed during the contracted period of performance and an overview of

closeout activities. An overview of the final developed platform shall be provided along with any recommended changes in the future. An assessment of the platform's ability to meet the test requirements shall be provided. A final traceability matrix shall also be provided that will be used to compare the expected concept's capabilities to the notional ARV Attributes (provided as GFI) and the expected concept's performance. The final weight summary and Attribute matrix shall be provided. A financial status shall be presented.

- 14. Prepare and Submit One (1) Each Final Technical Report (CDRL A013/A014).
  - The Contractor shall prepare and submit a Final Report in two parts, unclassified (CDRL A013) and classified (CDRL A014), detailing the Contractor's findings and recommendations as a result of the work performed under this effort. The Final Report shall be submitted, in Contractor format, 6 months prior to the end of the base period of performance and should coincide with delivery of the Technology Demonstrator vehicle. An update to the final report is due by the end of the base period of performance (POP).
- 15. Develop and Submit Developmental Level Technical Data

The Contractor shall develop and submit Developmental Level data as defined in MIL-STD-31000B, dated 31 October 2018. The developmental data shall consist of 3D models (CDRL A015), technical drawings (CDRL A016), Interface Control Diagrams (ICD) and data rights. These data elements capture the basic design of equipment/weapon systems developed from a concept. They are not intended for, nor are they adequate for use in, the competitive procurement of component parts. The Developmental Level data shall be submitted no later than 90 days after completion of Government testing.

16. Safety Assessment Report (CDRL A018)

The Safety Assessment Report (SAR) is a comprehensive evaluation of the safety risks being assumed prior to test or operation of the system or at contract completion. It identifies all safety features of the system, design, and procedural hazards that may be present in the system being acquired, and specific procedural controls and precautions that should be followed.

17. Government Furnished Material Receipt List (GFMRL)

Upon receipt of Government furnished Equipment and Information, or acquisition of Contractor Acquired Property relating to this contract, the Contractor shall submit a GFMRL IAW CDRL A019.

Option Periods Task List (scope/requirements to be defined during contract option negotiations):

- 18. Option Period 1: Support 6 Months of Additional USG Testing.
  - If Option Period 1 is exercised, the Contractor shall provide the personnel and equipment necessary to supervise and direct preparation of test assets, provide transport of assets in and around the test site, coordinate repair and routine maintenance during the test evaluations and support Test Readiness Reviews (TRRs) (CDRL A008), pre-test validations and post-test debriefs.
- 19. Option Period 2: Support 6 Months of Additional USG Testing.

  If Option Period 2 is exercised, the Contractor shall provide the personnel and equipment necessary to supervise and direct preparation of test assets, provide transport of assets in and around the test site, coordinate repair and routine maintenance during the test evaluations and

- support Test Readiness Reviews (TRRs) (CDRL A008), pre-test validations and post-test debriefs.
- 20. Option Period 3: Deliver One (1) Each Additional Blast/Ballistic Hull.

  If Option Period 3 is exercised, the Contractor shall manufacture and deliver one (1) each Blast/Ballistic Hull for use in the test program.
- 21. Option Period 4: Deliver One (1) Each Additional Ballistic Coupons.

  If Option Period 4 is exercised, the Contractor shall manufacture and deliver one (1) complete set of Ballistic Coupons for use in Government LFT&E..

### APPENDIX A. SINGLE HULL EXPLOITATION MODEL

Figure App-1 shows a prospective blast, ballistic and exploitation plan for a single ARV.

The data table shows the number of exploitation shots taken on a single AAVSU test hull at ATC in 2017. While the testable surface area of the AAVSU was slightly larger than that proposed for the ARV, it is evident that a single hull is a viable solution for adequate LFT&E when combined with a robust set of coupons for ballistic validation.

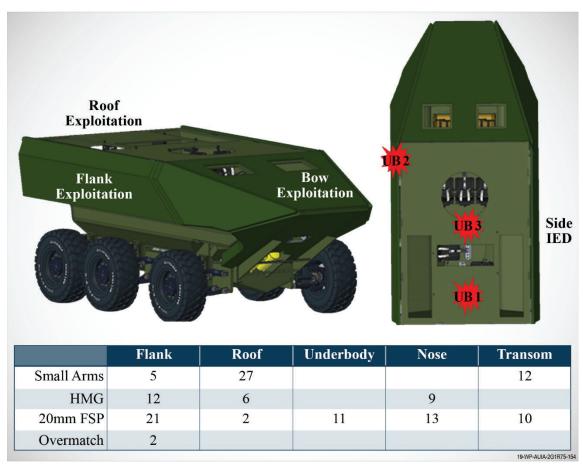


Figure App-1. Prospective Blast, Ballistic and Exploitation Plan

Future Naval Capability (FNC) Program | Solicitation No. N00014-19-S-B002

# APPENDIX B. PROSPECTIVE COUPON INVENTORY

Coupons	Armor thickness	Gap to hull	Hull	Hull thickness Gap to FW	Gap to FW	FW	FW Thickness	Liner	Liner thickness
	TBD	0	2139Т84	20mm	100mm	2139Т84	20mm	HB210	12mm
	TBD	50mm	2139Т84	20mm	100mm	2139Т84	20mm	HB210	12mm
	TBD	400mm	2139Т84	20mm	100mm	2139Т84	20mm	HB210	12mm
	TBD	50mm	2139Т84	20mm	NA	NA	ΑN	HB210	12mm
	TBD	NA	2139Т84	20mm	NA	NA	NA	HB210	12mm
	TBD	NA	2139Т84	20mm	NA	AN	ΑN	HB210	12mm
	TBD	50mm	2139Т84	20mm	NA	NA	NA	HB210	12mm
	TBD	NA	2139Т84	20mm	NA	NA	NA	HB210	12mm
	1"	450mm	2139T84	20mm	NA	NA	NA	NA	NA
	0.5"	450mm	2139Т84	20mm	ΝA	NA	AN	NA	NA

## Please wait...

If this message is not eventually replaced by the proper contents of the document, your PDF viewer may not be able to display this type of document.

You can upgrade to the latest version of Adobe Reader for Windows®, Mac, or Linux® by visiting http://www.adobe.com/go/reader download.

For more assistance with Adobe Reader visit http://www.adobe.com/go/acrreader.

Windows is either a registered trademark or a trademark of Microsoft Corporation in the United States and/or other countries. Mac is a trademark of Apple Inc., registered in the United States and other countries. Linux is the registered trademark of Linus Torvalds in the U.S. and other countries.



### **Science Applications International Corporation**

Small/Small Disadvantaged/Women-Owned/HUBZone/HBCU/MI/ Veteran-Owned/Service Disabled Veteran-Owned Businesses Individual Subcontracting Plan

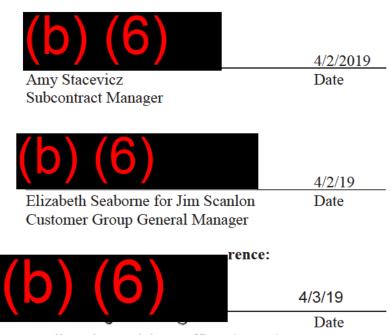
Including
Approved Master Subcontracting Plan Effective
29 September 2016 through 28 September 2019

SAIC DUNS Number 078883327 CAGE 6XWA8

**Subcontracting Goals For** 

Prime Contract/Solicitation No.: <u>N00014-19-S-B002</u> SAIC Bid and Proposal No.:

### Prepared By:



Small Business Liaison Officer (SBLO)

# SPECIFIC SUBCONTRACTING PLAN BASED ON FAR 52.219-9 REQUIREMENTS

### **CONTENTS**

<b>SECTION</b>	<u>DESCRIPTION</u>
I.	Subcontracting Goals [(d) (1), (d) (2) & (d) (7)]
II.	Proposed Distribution and Description of Subcontract Awards [(d)(3)]
III	** Efforts to Subcontract with Small Disadvantaged Business (SDB) Concerns
IV.	Method Used to Develop Goals [(d)(4)]
V	Indirect and Overhead Costs [(d)(6)]
VI	Method of Identification/Solicitation [(d)(5)]
VII	Good Faith Effort to Acquire Articles, Equipment, Supplies, Services, or Materials. [(d)(12)]
VIII	Written Explanation if SAIC Fails to Acquire Articles, Equipment, Supplies, Services or Materials [(d)(13)]
IX	Assurances SAIC Will Not Prohibit a Subcontractor from Discussing With the Contracting Officer Any Material Matter Pertaining to Payment to or Utilization of a Subcontractor. [(d)(14)]
X	Timely Payments to Subcontractors [(d)(15)]

NOTE 1: Requirements of FAR 52.219-9(d) ((8), (d) (9), (d)(10), and (d)(11)) are contained in the SAIC Master Subcontracting Plan; which is incorporated herein.

NOTE 2: SAIC further provides assurance that the clause entitled "Utilization of Small Business Concerns" will be included in all subcontracts that offer further subcontracting opportunities when the subcontractor is other than small and receives a subcontract in excess of \$700,000.00 (\$1.5 million in construction of any public facility with further subcontracting possibilities).

[ ]	Reference	Specifically	Identifies	FAR 52.219-9	Requirements
-----	-----------	--------------	------------	--------------	--------------

<sup>\*\*</sup>Specifically Identifies DFAR 219.705-4

### I. SUBCONTRACTING GOALS

A. Prime Contract/Solicitation Number: N00014-19-S-B002

SAIC: Defense Services Customer Group

Proposal Title: Armored Reconnaissance Vehicle (ARV) Advanced Technology Development Future Naval Capability – Technology Demonstrator Design, Fabrication, Test & Demonstration

- B. Program Summary: The design, fabrication, test and demonstration of technology demonstrators. Base period includes One Technology Demonstrator, Two Blast Hulls and FSR Testing Support. Option periods include additional testing and additional Blast Hulls.
- C. Individual Subcontract Plan Administrator:

Name: Amy Stacevicz

Title: Subcontracts Manager Address: 155 Passaic Ave

Fairfield NJ 07004

Telephone No.: 973-808-4702

D. Contract Representative:

Name: Joe Tomei

Title: Contracts Manager Address: c/o Contracts Dept.

6725 Odyssey Drive Huntsville, AL 33806

Telephone No.: 614-526-8153

E. Corporate Small Business Development Programs Small Business Liaison Officer:

Name: Courtney L. Raley

Title: Small Business Liaison Officer

Address: 12010 Sunset Hills Road

Reston, VA 20190

Telephone: (301) 904-5413

Email: COURTNEY.L.RALEY@saic.com

Duties of SBLO detailed in Master Subcontracting Plan and include those detailed in FAR 52.219-8 and 52.219-9.

### F. Subcontracting Goal Summary

The percentages contained in the below table(s) represent the goals that will be entered into eSRS and reported via the electronic Individual Subcontract Report (ISR).

Contract Period of Performance:

Base Period  $-\frac{03}{04}/2019 - \frac{03}{30}/2021$ : Design, fabricate, test and demonstration support

Option 1 - 04/01/2021 - 09/30/2021: Additional testing and evaluation

Option 2 - 10/01/2021 - 03/30/2022: Additional testing and evaluation

Option 3 – Additional blast/ballistic hull

Option 4 – Additional blast/ballistic hull

		Total Dollars to be Subcon- tracted	Large Business	Total Small Business	Small Disadvan- taged	Small Woman- Owned	HUBZone	Small Veteran- Owned	Small Service Disabled Veteran- Owned
Base	Amount	11,176,179	4,957,942	6,218,237				120,275	120,275
Year	% of Subcontracted	100.0%	44.4%	55.6%	0.0%	0.0%	0.0%	1.1%	1.1%
Option	Amount								
Year 1	% of Subcontracted	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ontion	Amount								
Option Year 2	% of Subcontracted	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Option Year 3	Amount % of Subcontracted		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Option Year 4	Amount % of Subcontracted		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Option Year 5	Amount % of Subcontracted		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Base+all option years	Amount % of Subcontracted	, ,	4,957,942 44.4%	6,218,237 55.6%	0.0%	0.0%	- 0.0%	120,275 1.1%	120,275 1.1%

TABLE A. Goals Expressed as Percentage of Total Planned Subcontracting

SAIC has established an outstanding team of advanced system technology providers to design, fabricate, test and demonstrate a state-of-the-art Armored Reconnaissance Vehicle (ARV) Technology Demonstrator (TD). The SAIC team is confident that the as-the-edge ARV will deliver a leap-forward next generation combat vehicle capacity. The Socio-economic status goals continue to be a challenge; however SAIC's over small business commitment is 55%.

The team includes some of the following industry leaders:

Team Member	<b>Business Size</b>	Key Capabilities
Maritime Applied	Small	Amphibious Swim Design
Physics Corp		Aluminum Hull Design/Fb
		Vehicle Rapid Prototyping
		Powertrain Integration
Fathom 4 LLC	SDVOSB	System Engineering, prototyping and technical support
Horstman	Small	Suspension Integration support
AxleTech	Large	Advanced Series Hybrid Drive E-Axle systems
Moog	Large	Advanced Remote Weapons systems with Gunner/Commanders Sights
Roush	Large	Powerpack Integration
Plank	Large	Advanced UAS for Combat Vehicles

Maritime Applied Physics Corp (MAPC), a Small Business brings a demonstrated capability to develop rapid prototype vehicles for many applications, including ships, amphibious vehicles, and ground platforms. Combined with SAIC's system optimization and design capabilities, the team provides a powerful combination for developing a state-of-the-art TD within program cost and schedule constraints.

**Fathom 4 LLC,** a SDVOSB having extensive expertise in documentation, integration and testing of multiple tactical vehicle platforms. Fathom 4 offers engineering experience with integrating and prototyping in all the following MRAP Family of Vehicles – Cougar, Cougar Ambulance, Buffalo, Caiman, Bull, RG-33 Plus, RG-31, MaxxPro, MaxxPro Plus, MaxxPro Dash, MaxxPro Ambulance, M-ATV, M1114, M1116, M1151, M1152, M1165. Various types of shelters, MTVR, LVSR, LAV, M88, HAGA, M1A1Tank, Stryker, Bradley, M1113, M1157.

**Horstman Inc.**, a Small Business will provide its proven suspension technology for military combat vehicles. Horstman's low cost suspension solution that modifies the static road arm position, replaces dampers and incorporates heavy duty torsion bars used on the US Army M109 PIM is an example of their unique capability.

SAIC has determined that large business sourcing is necessary because of the specific and unique capabilities required to provide ONR with an at-the edge concept vehicle designed to meet objective capabilities. SAIC has identified the industry leaders in system integration, powertrain integration, weapon systems, powerpack integration, C41SR, tactical electrical systems and

ontinue to obtain small business schases with small business supply	participation through its liers.
	ontinue to obtain small business supplications with small business supplications.

	Amount	Contract Value	Total Dollars to be Subcon- tracted 11,176,179	Large Business 4,957,942	Total Small Business 6.218,237	Small Disadvan- taged	Small Woman- Owned	HUBZone	Small Veteran- Owned	Small Service Disabled Veteran- Owned
Base Year —	% of Contract		, ,	, ,	, ,	0 0%	0.0%	0.0%	,	,
Option Year 1	Amount % of Contract	,	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Option Year 2	Amount % of Contract	,	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Option Year 3	Amount % of Contract	,	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Option Year 4 —	Amount % of Contract	,	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Base+all option years	Amount % of Contract		11,176,179 54.5%	4,957,942 24.2%	6,218,237 30.3%	- 0.0%	0.0%	- 0.0%	120,275 0.6%	120,275 0.6%

TABLE B. Allocation of Award Activity Based on Anticipated Contract Total Value

SAIC has determined that large business sourcing is necessary because of the specific and unique capabilities required to provide ONR with an at-the edge concept vehicle designed to meet objective capabilities. SAIC will continue to obtain SDB, WOSB and Hubzone participation through its subcontracts and through its material purchases with small business suppliers. Based on our comprehensive trade studies and market surveys, we add the balance of team to supply key technologies and capabilities needed to make our ARV concept a reality.

The percentages contained in Table A and Table B represent the goals that will be entered into eSRS and reported via the electronic Individual Subcontract Report (ISR).

# II. PROPOSED DISTRIBUTION AND DESCRIPTION OF SUBCONTRACT AWARDS

Science Applications International Corporation is committed to providing opportunities for small businesses to compete for subcontract awards.

The principal supplies and/or services to be subcontracted under this contract are:

- Military Armored Vehicle, Tank, and Tank Component Manufacturing
- Engineering Services
- Other Electronic Component Manufacturing
- Other Automotive Mechanical and Electrical Repair and Maintenance

		T	ype of	Awar	d								
Identify Service/Product	Amount	Full & Open Competition Source Item	Limited Competition	Single Source	Restricted Disadvantaged Competition	Large Business	Small Business	SDB	WOSB	HUBZone	VOSB	SDVOSB	ANC/Indian Tribal-owned
Military Armored Vehicle, Tank, and Tank component Manufacturing	\$6,243,682.13			X		X	X	1	,		,	1	
Engineering Services	\$835,374.71			X			X				X	X	
Other Electronic Component Manufacturing	\$622,771.38			X		X							
Other Automotive Mechanical and Electrical Repair and Maintenance	\$3,474,351.11			X		X	X						

# III EFFORTS TO SUBCONTRACT WITH SMALL DISADVANTAGED BUSINESS (SDB) CONCERNS

This Individual Subcontracting Plan was prepared with consideration given to positive goals for SDB participation.

• SAIC has determined that large business sourcing is necessary because of the specific and unique capabilities required to provide ONR with an at-the edge concept vehicle designed to meet objective capabilities. SAIC will continue to obtain SDB participation through its subcontracts and through its material purchases with small business suppliers. Based on our comprehensive trade studies and market surveys, we add the balance of team to supply key technologies and capabilities needed to make our ARV concept a reality.

### IV. METHOD USED TO DEVELOP GOALS

- A. Proposed subcontracting goals as identified in Section I, F. Subcontracting Goal Summary was developed by a joint pre-proposal review of the solicitation statement of work and performance requirements. The joint review involved program, technical and procurement personnel including, the Corporate Small Business Liaison Officer, Customer Group General Manager, Contract Representative, and the identified Individual Subcontract Plan Administrator.
- B. Criteria considered in the review process included:
  - 1. Review of the solicitation statement of work.
  - 2. Identification of the requirement for goods and services.
  - 3. Identification of the potential to subcontract for goods and services.
  - 4. Make Buy Analysis.
  - 5. Identification of potential suppliers.
  - 6. Categorization of source requirements based on single source, limited competition and open competition as provided by the marketplace or could potentially be developed.

### V. INDIRECT AND OVERHEAD CHARGES

Indirect and overhead charges are not included in this subcontracting plan.

### VI. METHOD OF IDENTIFICATION/SOLICITATION

The development of goals as described in Section IV resulted in the identification of potential/proposed subcontracting opportunities. The review process identified provided a categorization of items available from single sources, limited competition and full and open competition. Some single source items are available from "only qualified sources" as determined from previous programs of a similar nature.

Items available for limited or open competition provide the opportunity to subcontract to small businesses. These prospective sources were identified through the mechanisms identified in Section III(c) of the Master Subcontracting Plan.

# VII. GOOD FAITH EFFORT TO ACQUIRE ARTICLES, EQUIPMENT, SUPPLIES, SERVICES OR MATERIALS

SAIC will make a good faith effort to acquire articles, equipment, supplies, services, or materials, or obtain the performance of construction work from the small business concerns that it used in preparing the bid or proposal, in the same or greater scope, amount, and quality used in preparing and submitting the bid or proposal. Responding to a request for a quote does not constitute use in preparing a bid or proposal. SAIC used a small business concern in preparing the bid or proposal if—

- (i) SAIC identifies the small business concern as a subcontractor in the bid or proposal or associated small business subcontracting plan, to furnish certain supplies or perform a portion of the subcontract; or
- (ii) SAIC used the small business concern's pricing or cost information or technical expertise in preparing the bid or proposal, where there is written evidence of an intent or understanding that the small business concern will be awarded a subcontract for the related work if the Offeror is awarded the contract.

# VIII. WRITTEN EXPLANATION IF SAIC FAILS TO ACQUIRE ARTICLES, EQUIPMENT, SUPPLIES, SERVICES OR MATERIALS

SAIC will provide the Contracting Officer with a written explanation if SAIC fails to acquire articles, equipment, supplies, services or materials or obtain the performance of construction work as described in far 52.219-9(d)(12) or Section VII of this clause. This written explanation must be submitted to the Contracting Officer within 30 days of contract completion.

# IX. PROHIBITING SUBCONTRACTOR FROM DISCUSSING MATERIAL MATTER PERTAINING TO PAYMENT OR UTILIZATION WITH CONTRACTING OFFICER

SAIC will not prohibit a subcontractor from discussing with the Contracting Officer any material matter pertaining to payment to or utilization of a subcontractor.

### X. TIMELY PAYMENT TO SUBCONTRACTORS

SAIC will pay its small business subcontractors on time and in accordance with the terms and conditions of the underlying subcontract, and notify the contracting officer when the prime contractor makes either a reduced or an untimely payment to a small business subcontractor (FAR 52.242-5).

cc: Courtney L. Raley

File

# CONTRACTING OFFICER'S REPRESENTATIVE DESIGNATION LETTER

Date: 8 Apr 2019

From: R. Brian Bradley
To: Mr. Jeff Bradel

Subj: Designation as Contracting Officer's Representative COR)

Ref: (a) FAR 1.602

(b) DFARS 201.602-2

(c) DFARS PGI 201.602-2

(d) ONRINST 4205.2D

1. Pursuant to references (a) through (d), you are hereby designated as the Contracting Officer's Representative (COR) for the administration of the following contract/order:

Contract Number: N00014-19-C-2047

For: ARV- At the Edge

Name of Contractor: Science Applications International Corporation

Contract Period: Base (25 mos); option 1 (6 mos); option 2 (6 mos); option 3 (12 mos); option 4 (12 mos)

- 2. You are authorized by this designation to take action with respect to the following:
- a. Verify that the contractor performs the technical requirements of the contract in accordance with the contract terms, conditions and specifications.
- b. Perform acceptance for the Government of services performed under this contract. You are the designated Government Official to receive and accept invoices for payment (only for non-Cost contracts) via iRAPT. You are advised that invoices that you are required to review and accept shall be reviewed as to completeness, accuracy and in accordance with the contract as awarded and by signing

the acceptance, you are attesting that the invoice is valid and accurate.

- c. Maintain liaison and direct communications with the contractor. Written communications with the contractor and other documents pertaining to the contract shall be signed as "Contracting Officer's Representative" and a copy shall be furnished to the contracting officer.
- d. Monitor the contractor's performance; notify the contractor of deficiencies observed and direct appropriate action to effect correction. Record and report to the PCO incidents of faulty or nonconforming work, delays or problems.
- 3. You are not empowered to award, agree to or sign any contract (including delivery orders) or contract modifications or in any way obligate the payment of money by the Government. You may not take any action which may affect contract or delivery order schedules, funds or scope. The Procuring Contracting Officer (PCO) shall make all contractual agreements, commitments or modifications that involve price, quantity, quality, delivery schedules or other terms and conditions of the contract.
- 4. You may be personally and financially liable for unauthorized acts.
- 5. You may not re-delegate, re-designate or transfer your COR authority.
- 6. You must meet the qualification requirements established in this instruction for the specific type of standard (A, B or C).
- 7. This designation as a COR shall remain in effect through the life of the contract, unless revoked sooner in writing by the PCO. If you are to be reassigned or to be separated from Government service, you shall notify the PCO sufficiently in advance of reassignment or separation to permit timely selection and designation of a successor COR. If your designation is revoked for any reason before completion of this contract, turn your records over to the successor COR or obtain disposition instructions from the PCO.
- 8. You are required to maintain adequate records to

sufficiently describe the performance of your duties as a COR during the life of this contract and to dispose of such records as directed by the PCO. As a minimum, the COR file must contain the following:

- a. A copy of COR File Checklist, NAVONR 4205/3
- b. A copy of your letter of appointment from the PCO, or any amendments thereto.
- c. A copy of the contract or the appropriate part of the contract and all contract modifications.
- d. A copy of the applicable quality assurance surveillance plan (QASP). (Applies to Services Type contracts)
- e. All correspondence pertaining to this contract, including Memorandums of Record for meetings, contractor discussions, etc.
- f. The names and position titles of individuals who serve as Key Personnel on the contract. The PCO must approve all Key Personnel.
- g. A record of inspections performed and results (as applicable).
- h. Memoranda for record or minutes of any preperformance conferences (as applicable).
- i. Memoranda for record of minutes of any meetings and discussions with the contractor or others pertaining to the contract or contract performance.
- j. Documentation pertaining to your acceptance of performance of services, including reports and other data.
- 9. All Government personnel engaged in contracting and related activities shall conduct business dealings with industry in a manner above reproach in every aspect and shall protect the U.S. Government's interest, as well as maintain its reputation for fair and equal dealings with all contractors. DoD 5500.7-R sets forth standards of conduct for all personnel directly and indirectly involved in contracting.

- 10. A COR who may have direct or indirect financial interest which would place the COR in a position where there is a conflict between the COR's private interests and public interests of the United States shall advise the supervisor and PCO of the conflict so the appropriate actions may be taken. COR's shall avoid the appearance of a conflict of interest to maintain public confidence in the U.S. Government's conduct of business with the private sector.
- 11. As a COR you must file an OGE Form 450 "Confidential Financial Disclosure Report". This form is used to report financial interests as well as other interests outside the Government. The purpose of this report is to assist employees in avoiding conflicts between duties and private financial interests or affiliations.
- 12. The letter of designation must be signed by the PCO and yourself. You and your supervisor should retain copies of the executed letter of designation. The original executed letter of designation must be retained in the PCO's contract file and your copy in the COR contract file. The executed letter of designation constitutes certification for performance of your responsibilities for the time period specified under the specific contract, task or delivery order. Your signature also serves as certification that you have read and understand the contents of DoD 5500.7-R.
- 13. If you have any questions regarding this nomination, please contact Darnell Griffin at 703-696-2440 or e-mail at darnell.griffinl@navy.mil.



### COR ACKNOWLEDGEMENT:

I have read, understand and shall comply with the COR Appointment Letter and the Joint Ethics Regulation DOD 5500.7R. I have completed and provided evidence of the required training.

I understand that the above duties will be added to my performance objectives and be evaluated during my rating period. I also understand that I do not have the authority to obligate the government.

COR Name: Mr. Jeff Bradel

Title: Program Officer

E-mail: jeff.bradel@navy.mil

Phone: 703-588-2552

Signature: \_\_\_\_(0) (6)

Date: 4/8/2019

AWARD/CO	NTRACT	1. THIS CONT	RACT IS A RA		ER	R	ATING	Unrat	ed	PAGE (	OF PAGES	
. CONTRACT (Proc. Inst. Ident.) N	Q.	GROCK DE	AG ( I G G F R )	001		3. EFFECTIV	E DATI	1979 PRINTERS	ISITIONIPUR	CHASE REC	25 DUEST/PRO	JECT NO.
100014-19-C-2047						See Blo	ck 2	Color Color Color				
. ISSUED 8Y	CODE	N00014		6. ADMIN	HSTERE	BY (If other	hon Ho	n 5)	COD	DE	50701	A
office of Naval Re Darnell Griffin) Marnell.griffinl@n 175 N. Randolph St Irlington VA 22203	(703) 696-24 lavy.mil creet			SCD-C DCMA HARTFORD 130 DARLIN ST EAST HARTFORD CT 06108-3234								
NAME AND ADDRESS OF CONT	PACTOR (No. street o	number State and 719 Co	vda)	1		B. DELIVER					30	D-A
Translation and the second	1010101 (110., 31100)	Johny, State and Ell Co	00)			FOB			Ø1 or	HER (See b	elel	
CIENCE APPLICATIO	NS INTERNATI	ONAL CORPORA	TION			5-6		PROMPT P	Second	HEK 1969 D	erawi	
ktn: Joseph Kelle 710 SAIC DR ICLEAN VA 22102	r											
						10. SUBMIT	INVOI	CES		ITEM	-	
ODE 6XWA8	IFA	CILITY CODE				Street and Street and April 2015		nerwise spec SHOWN IN	ified)	See S	ec. G	
SHIP TO/MARK FOR	CODE	NOC014		12. PAYM	ENT WIL	L BE MADE 8	Y		CODE	HQ033	7	
ffice of Naval Re	L	1,00014	-	_		MB. NOR		NTT - UC		<u> </u>	Al.	
TTN: Jeff Bradel 75 N. Randolph St rlington VA 2220	•			PO BO	X 18				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
AUTHORITY FOR USING OTHE	R THAN FULL AND OP	EN COMPETITION:		14. ACCC	UNTING	AND APPRO	PRIATIO	ON DATA		**		
10 U.S.C. 2304 (c) (	10 U.S.C. 2304 (c) ( ) (41 U.S.C. 3304 (a) ( )							see Sec	ction G			
5A. ITEM NO 15B. SUPPLIES/SERVICES						15C. QUANTITY	15D. UNIT	15E. UA	IT PRICE		15F AMOUN	т
Continued												
					15G. T	OTAL AMOUN	TOFO	ONTRACT			\$18,9	999,989.00
			16. TABL	LE OF CON	TENTS							
X) SEC. DESCRIPTION		With the second	PAGE(S)	(X)	SEC.	DESCRIPTI	ON	1550.05				PAGE (5)
PART I - THE SCHEDULE	DATE OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER O		ř.		PARTII	- CONTRACT						
A SOLICITATION/CO			1	×		CONTRACT CLAUSES 15-24						
	RVICES AND PRICES/OPECS.AWORK STATEME		3-5	X	PARTIII	III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH LIST OF ATTACHMENTS 24						
D PACKAGING AND		Mr.	5	1	Name and Advanced	and the second	A STATE OF THE PARTY AND	Salah Shenson	RUCTIONS			44
E INSPECTION AND			5		K	V - REPRESENTATIONS AND INSTRUCTIONS  REPRESENTATIONS CERTIFICATIONS AND						
F DELIVERIES OR	PERFORMANCE		5-7			REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS						
	INISTRATION DATA	10000	7-12		L	INSTRS., CONDS., AND NOTICES TO OFFERORS						
	ACT REQUIREMENTS		12-14		M	EVALUATIO	-					
CONTRACTING OF	FICER WILL COMPLETE TED AGREEMENT (Con	ITEM 17 (SEALED-BID	OR NEGOTIA			T) OR 18 (SEA ID AWARD (Co						
current end return 1		ce.) Contractor agrees to		Solicitatio			2411 (0010	N00	014-18-	S-B001	, Too bid or	
nish and deliver all items or perfor				AND REPORTED TO		ions or change						
ove and on any continuation shee ligations of the parties to this contr		500 H. H. H. H. H. H. H. H. H. H. H. H. H.		1,140,000 (1,000) 10		reby accepted				Company of the second	uation	
cuments: (a) this award/contract.	AND THE RESERVE OF THE PARTY OF	CONTRACTOR OF THE CONTRACTOR O		152870		d consummate e Government				573365	contract.	
presentations, certifications, and sp		hed or incorporated by		No furthe	r contrac	tual document						
A. NAME AND TITLE OF SIGNER						-bid contract) ONTRACTING	OFFIC	ER				
loseph P. Keller, Dire	(0.000) Di 29			2007 2007	4 -	Bradley						
(b) (6			TESIGNED	B B	TED STA	ITES OF AMER	RICA				OC. DATES	PR2
	F								STAU	DARD FORM'S	6 /Bay 3/2019	